

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

Monday, April 22, 2019

1:00 PM

AGENDA

1. **CALL TO ORDER, ROLL CALL**
2. **PUBLIC COMMENT** (*Public may address the Board on any subject matter not on the agenda and within the Board's jurisdiction. See "Notice to the Public" below. Please make your comments from the podium once acknowledged by the President of the Board.*)
3. **CONSENT AGENDA** (*All items on the Consent Agenda are considered to be routine and will be approved or rejected in a single motion. Any item placed on the Consent Agenda may be removed and placed on the Regular Agenda for discussion and possible action upon the request of any Board Member.*)
Action: Recommend Approval of Consent Agenda by motion and roll call vote of the Board:
 - a. Minutes of March 25, 2019 Regular Board Meeting
 - b. Investment of Funds
 - Financial Reports
 - Investment Reports
 - c. Review of Paid Claims
4. **VERBAL REPORTS FROM BOARD COMMITTEES**
Receive verbal information regarding the following committee meetings:
 - Operations Committee Meeting – April 16, 2019
5. **EMERGENCY PUMPING FACILITY PROJECT CONTRACT**
Action: Recommend approval by motion and roll call vote of the Board
6. **U.S. BUREAU OF RECLAMATION OWNED FACILITIES**
Action: Recommend approval by motion and roll call vote of the Board
7. **GENERAL MANAGER REPORT**
Receive information from the General Manager on topics pertaining to COMB, including but not limited to the following:
 - Meetings
 - Administration
 - Engineering / Operations Division

8. **WATER RESOURCES ENGINEER REPORT**

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

- Climate Conditions
- Lake Cachuma Conveyance Feasibility Study
- Lake Cachuma Water Quality and Sediment Management Study
- Infrastructure Improvement Project Status

9. **OPERATIONS DIVISION REPORT**

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

- Lake Cachuma Operations
- Operation and Maintenance Activities

10. **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

11. **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

12. **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

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

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

- a. [Government Code Section 54956.9(d)(1)]
Name of matter: *Cachuma Operation & Maintenance Board v. Santa Ynez River Water Conservation District, Improvement District Number 1*, Case No. 19CV01873 – Breach of Contract and Declaratory Relief

15. **RECONVENE INTO OPEN SESSION**

[Government Code Section 54957.7]

Disclosure of actions taken in closed session, as applicable

[Government Code Section 54957.1]

- 14a. *Cachuma Operation & Maintenance Board v. Santa Ynez River Water Conservation District, Improvement District Number 1*, Case No. 19CV01873 – Breach of Contract and Declaratory Relief

16. **MEETING SCHEDULE**

- **May 9, 2019 at 10:00 AM, Special Board Meeting**
- **May 20, 2019 at 1:00 PM, COMB Office**
- **Board Packages available on COMB website www.cachuma-board.org**

17. **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.

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

held at
3301 Laurel Canyon Road, Santa Barbara, CA 93105

**Monday, March 25, 2019
1:00 PM**

1. CALL TO ORDER, ROLL CALL

The meeting was called to order by President Holcombe at 1:00 PM

Directors Present:

Polly Holcombe, Carpinteria Valley Water District
Lauren Hanson, Goleta Water District
Kristen Sneddon, City of Santa Barbara
Tobe Plough, Montecito Water District

General Counsel Present:

William Carter, Musick, Peeler & Garrett, LLP

Staff Present:

Janet Gingras, General Manager
Edward Lyons, Administrative Manager/CFO
Joel Degner, Water Resources Engineer

Tim Robinson, Fisheries Division Manager
Dorothy Turner, Administrative Assistant II

Others Present:

Farfalla Borah, Goleta Water District
Fray Crease, SB Water Agency
Paeter Garcia, SYRWCD, ID No. 1

Charles Hamilton, Resident
Mark Preston, We Watch
Nick Turner, Montecito Water District

2. PUBLIC COMMENT

There was no public comment.

3. CONSENT AGENDA

- a. Minutes of February 25, 2019 Regular Board Meeting
- b. Investment of Funds
 - Financial Reports
 - Investment Reports
- c. Review of Paid Claims

Ms. Gingras presented the Consent Agenda items, noting sources of revenue. Director Hanson motioned that the Consent Agenda be approved. Motion was seconded by Director Plough and carried unanimously with a vote of six in favor.

Ayes: Sneddon, Plough, Hanson, Holcombe

Nays:

Absent:

Abstain:

4. **VERBAL REPORTS FROM BOARD COMMITTEES**

- *Operations Committee Meeting – March 14, 2019:* Director Sneddon presented the committee meeting items as provided in the agenda, noting that several items from the Operations Committee meeting are addressed in the Board Meeting agenda. She summarized the remaining items briefly.

5. **APPOINTMENT OF REPRESENTATIVE TO CACHUMA PROJECT TRUST FUND AND RENEWAL FUND COMMITTEE AND BETTERMENT FUND USE OF FUNDS DISCUSSION**

Ms. Gingras provided the Board with an overview of the history of the funds, noting examples of expenses for which the revenues may be used. She fielded questions from the Board. Director Sneddon motioned that Ms. Gingras be the appointed Representative; motion was seconded by Director Hanson and carried unanimously with a vote of six in favor.

Ayes: Sneddon, Plough, Hanson, Holcombe

Nays:

Absent:

Abstain:

6. **AVAR/BLOW-OFF REHABILITATION PROJECT / SOUTH COAST CONDUIT (SCC) ISOLATION VALVE ENGINEERING DESIGNS**

Ms. Gingras presented the proposed contract amendment to modify the design of the AVAR/Blow-Off projects, schedules D and E. She fielded questions from the Board. Director Plough motioned that the contract be amended to incorporate the recommended design. Director Sneddon seconded the motion which passed unanimously with a vote of six in favor.

Ayes: Sneddon, Plough, Hanson, Holcombe

Nays:

Absent:

Abstain:

7. **SOUTH COAST CONDUIT (SCC) LOWER REACH LATERAL STRUCTURES REHABILITATION PROJECT - ENGINEERING DESIGN**

Ms. Gingras presented the proposed engineering design costs for the Carpinteria lower reach turnouts. She fielded questions from the Board. Director Sneddon motioned that the Board approve the costs and authorize the General Manager to execute a sole sourced Professional Service Agreement. Director Plough seconded the motion. The motion passed unanimously with a vote of six in favor.

Ayes: Sneddon, Plough, Hanson, Holcombe

Nays:

Absent:

Abstain:

8. **RESOLUTION NO. 684 – U.S. BUREAU OF RECLAMATION WATERSMART DROUGHT RESILIENCY GRANT OPPORTUNITY**

Ms. Gingras presented Resolution No. 684, the WaterSmart matching grant opportunity potentially available through Reclamation, emphasizing that, at this time, the Board is approving the application only, via Resolution. She fielded questions from the Board. After discussion, Director Sneddon motioned that the Resolution be approved and adopted. Director Plough seconded the motion. The motion carried unanimously with a vote of six in favor.

Ayes: Sneddon, Plough, Hanson, Holcombe

Nays:

Absent:

Abstain:

9. **PURCHASE OF REPLACEMENT FLEET VEHICLE – OPERATIONS DIVISION**

Ms. Gingras presented the board with the staff memo and COMB's vehicle replacement matrix, reporting that the lowest quote received for a replacement vehicle came from Jim Vreeland Ford in the amount of \$30,010. Director Sneddon motioned that the Board authorize the General Manager to execute a purchase order with Jim Vreeland Ford not to exceed \$30,010 in order to purchase a replacement vehicle. Motion was seconded by Director Plough and passed unanimously with a vote of six in favor.

Ayes: Sneddon, Plough, Hanson, Holcombe

Nays:

Absent:

Abstain:

10. **GENERAL MANAGER REPORT**

- Meetings
- Administration
- Fisheries Division Activities

Ms. Gingras presented her report as contained in the Board Packet, highlighting the upcoming Member Agency meeting to discuss the Infrastructure Improvement Plan and the potential renewal of the contract with Cushman Contracting Corporation. Ms. Gingras also provided an update on a meeting of the IRWM Cooperating Partners, as well as a recent meeting between staff and COMB's external IT Consultant to review IT systems, protocol and security. Further, she summarized issues that arose with the Hilton Creek Watering System, noting that further explanation would be forthcoming in the Fisheries Division report.

11. **WATER RESOURCES ENGINEER REPORT**

- Forecasted Lake Elevations
- Climate Conditions
- Lake Cachuma Conveyance Feasibility Study
- Lake Cachuma Water Quality and Sediment Management Plan
- Infrastructure Improvement Project Status

Mr. Degner presented his report as contained in the Board packet, highlighting lake elevation and climate conditions. He provided updates on the Lake Cachuma Conveyance Feasibility study and Lake Cachuma Lake Water Quality and Sediment Study. Further, Mr. Degner updated the Board with regard

to ongoing Infrastructure Improvement Projects, including the Sycamore Canyon Slope Stabilization project and a forthcoming recommendation regarding the Cushman Contracting Corporation's contract. He fielded questions from the Board.

12. OPERATIONS DIVISION REPORT

- Lake Cachuma Operations
- Operation and Maintenance Activities

Mr. Degner presented the report as contained in the Board packet, noting the continuing clean-up of Blow-Off structures, the installation of a new Wash Water Pump at the Cachuma Lake North Portal Intake structure, and routine exercising of valves and weed abatement. He fielded questions from the Board.

13. FISHERIES DIVISION REPORT

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

Mr. Robinson presented his report as contained in the Board packet, highlighting REDD surveys, migrant trapping efforts and noting the status of the Annual Monitoring Summaries. Further he discussed the status of the Quiota Creek Crossings and reported the staff's completion of electrofishing training. Mr. Robinson provided in depth explanations of Fish Passage Supplementation and the Hilton Creek Watering System's issues and needed repairs. He fielded questions from the Board.

14. FINAL UPDATE ON FISH PASSAGE IMPROVEMENT PROJECTS

- a. Quiota Creek Crossing 5
- b. Quiota Creek Crossing 9

Mr. Robinson presented final reports on the completion of fish passage improvements at Quiota Creek Crossings 5 and 9, providing financial data for both projects. He noted that work will begin on Crossing 8 following bid solicitation and Board approval. Mr. Robinson reported that the project binders for the County of Santa Barbara are almost ready in order that the completed Crossings may be transferred to the jurisdiction of the County.

15. PROGRESS REPORT ON LAKE CACHUMA OAK TREE PROGRAM

- Maintenance and Monitoring

Mr. Robinson provided highlights of the report as contained in the Board packet which included a chart of ongoing maintenance of the plantings. He reported that staff has initiated the annual oak tree inventory and noted that the newly planted oak trees have been located with GPS.

16. MONTHLY CACHUMA PROJECT REPORTS

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

Ms. Gingras presented the reports as contained in the board packet. There were no questions.

17. DIRECTORS' REQUESTS FOR AGENDA ITEMS FOR FUTURE MEETING

Directors submitted no requests for future agenda items.

Speaker: Paeter Garcia, SYRWCD, ID No. 1

Mr. Garcia addressed the Board in open session and responded to the letter from President Holcombe, dated March 12, 2019, subject: Separation Agreement Compliance – Demand for Payment of COMB Invoice for FY 2017-18, Issued on November 27, 2018. Mr. Garcia apologized and offered several explanations for ID No. 1's failure to remit payment and follow the dispute resolution process as outlined in the Separation Agreement. He stated that ID No. 1 has scheduled a Special Board meeting on March 26, 2019 to discuss setting up a separate account with Rabobank and depositing the disputed amount into the account per the terms of the Separation agreement.

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

- a. [Government Code Section 54956.9(d)(4)]
Name of matter: Non-Payment by Cachuma Member Unit of Annual/Quarterly Invoices in Violation of Separation Agreement

The Board entered into closed session at 3:44 PM.

19. [CLOSED SESSION]: ANNUAL PERFORMANCE REVIEW

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

20. [CLOSED SESSION]: CONFERENCE WITH LABOR NEGOTIATORS

- a. [Government Code Section 54957.6(a)]
Agency designated representatives: Board President
Unrepresented Employee: General Manager

21. 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 emerged from Closed Session at 5:22 PM

18a. Non-Payment by Cachuma Member Unit of Annual/Quarterly Invoices in Violation of Separation Agreement

The Board approved the initiation of litigation against a Cachuma Member Unit for failure to pay outstanding invoices in violation of the Separation Agreement.

19a. Annual Performance Review – General Manager

The Board completed its annual performance review of the General Manager.

20a. Conference with Labor Negotiators

The Board gave direction to the President regarding the proposed employment agreement for General Manager, Janet Gingras.

22. **MODIFICATION OF GENERAL MANAGER'S COMPENSATION**

The Board approved the employment agreement for General Manager, Janet Gingras, and compensation contained therein.

23. **MEETING SCHEDULE**

- **April 22, 2019 at 1:00 PM, COMB Office**
- **Board Packages available on COMB website www.cachuma-board.org**

24. **COMB ADJOURNMENT**

There being no further business, the meeting was adjourned at 5:24 PM.

Respectfully submitted,

Janet Gingras, Secretary of the Board

APPROVED:

Polly Holcombe, President of the Board

	<i>Approved</i>
√	<i>Unapproved</i>

Cachuma Operation & Maintenance Board
Statement of Net Position
As of March 31, 2019
UNAUDITED FINANCIALS

Mar 31, 19

ASSETS

Current Assets

Checking/Savings

Trust Funds

1210 · Warren Act Trust Fund

\$ 651,421.65

1220 · Renewal Fund

10,215.61

Total Trust Funds

\$ 661,637.26

1050 · General Fund

475,716.45

1100 · Revolving Fund

274,757.66

Total Checking/Savings

1,412,111.37

Accounts Receivable

1301 · Accounts Receivable

1,569.98

1320 · Quarterly Assessments Receivable

135,776.00

1325 · Bank Loan Receivable - EFPF

115,862.55

Total Accounts Receivable

253,208.53

Other Current Assets

1010 · Petty Cash

500.00

1200 · LAIF

883,070.07

1303 · Bradbury SOD Act Assessments Receivable

195,566.00

1304 · Lauro Dam SOD Assessments Receivable

30,258.63

1400 · Prepaid Insurance

19,555.72

Total Other Current Assets

1,128,950.42

Total Current Assets

2,794,270.32

Fixed Assets

1500 · Vehicles

445,723.91

1505 · Office Furniture & Equipment

443,923.41

1510 · Mobile Offices

97,803.34

1515 · Field Equipment

594,001.22

1525 · Paving

38,351.00

1550 · Accumulated Depreciation

(1,462,883.66)

Total Fixed Assets

156,919.22

Other Assets

1910 · Long Term Bradbury SOD Act Assess Receivable

4,680,154.07

1920 · Long Term Lauro SOD Act Assess Receivable

835,169.28

1922 · Deferred Outflow of Resources (GASB 68)

581,365.00

Total Other Assets

6,096,688.35

TOTAL ASSETS

\$ 9,047,877.89

Cachuma Operation & Maintenance Board
Statement of Net Position
As of March 31, 2019
UNAUDITED FINANCIALS

Mar 31, 19

LIABILITIES & NET POSITION

Liabilities

Current Liabilities

Accounts Payable

2200 · Accounts Payable \$ 18,083.88

Total Accounts Payable 18,083.88

Other Current Liabilities

2550 · Vacation/Sick 150,085.16

2561 · Bradbury Dam SOD Act 195,576.66

2563 · Lauro Dam SOD Act 30,258.63

2565 · Accrued Interest SOD Act 62,424.00

2567 · Loan Payable Current EPFP 418,020.44

2590 · Deferred Revenue 661,637.26

Total Other Current Liabilities 1,518,002.15

Total Current Liabilities 1,536,086.03

Long Term Liabilities

2602 · Long Term SOD Act Liability-Bradbury 4,680,144.07

2603 · Long Term SOD Act Liability - Lauro 835,169.28

2604 · OPEB Long Term Liability 5,078,967.00

2605 · Loan Payable Principal - EPFP 609,575.45

2610 · Net Pension Liability (GASB 68) 1,781,995.00

2611 · Deferred Inflow of Resources (GASB 68) 149,386.00

Total Long Term Liabilities 13,135,236.80

Total Liabilities 14,671,322.83

Net Position

3000 · Opening Balance Net Position (5,296,580.05)

3901 · Retained Net Assets (1,283,902.60)

Net Position 957,037.71

Total Net Position (5,623,444.94)

TOTAL LIABILITIES & NET POSITION \$ 9,047,877.89

Cachuma Operation & Maintenance Board
Statement of Revenues and Expenditures
 Budget vs. Actuals July 2018 - Jun 2019

	Fisheries				Operations				TOTAL			
	Jul '18 - Mar 19	\$ Over/(Under)			Jul '18 - Mar 19	\$ Over/(Under)			Jul '18 - Mar 19	\$ Over/(Under)		
		Budget	Budget	% of Budget		Budget	Budget	% of Budget		Budget	Budget	% of Budget
Revenue												
3000 REVENUE												
3001 · O&M Budget (Qtrly Assessments)	\$685,485.00	\$946,511.00	-\$261,026.00	72.42%	\$2,504,180.00	\$3,292,374.00	-\$788,194.00	76.06%	\$3,189,665.00	\$4,238,885.00	-\$1,049,220.00	75.25%
3006 · Warren Act	546,937.07	539,521.00	7,416.07	101.38%	0.00				546,937.07	539,521.00	7,416.07	101.38%
3009 · EPPF Loan (Qtrly Assessments)	0.00				347,587.65				347,587.65	0.00	347,587.65	100.0%
3010 · Interest Income	0.00				19,295.85				19,295.85	0.00	19,295.85	100.0%
3035 · Cachuma Project Betterment Fund	0.00	90,000.00	-90,000.00	0.0%	0.00				0.00	90,000.00	-90,000.00	0.0%
3037 · Grant-QC Crossing #5	870,117.62	893,287.00	-23,169.38	97.41%	0.00				870,117.62	893,287.00	-23,169.38	97.41%
3039 · Grant-QC Crossing #9	981,246.00	993,121.00	-11,875.00	98.8%	0.00				981,246.00	993,121.00	-11,875.00	98.8%
3042 · Sycamore Cnyn Slope Stabln Reim	0.00				7,502.00				7,502.00	0.00	7,502.00	100.0%
Total 3000 REVENUE	3,083,785.69	3,462,440.00	-378,654.31	89.06%	2,878,565.50	3,292,374.00	-413,808.50	87.43%	5,962,351.19	6,754,814.00	-792,462.81	88.27%
Total Revenue	3,083,785.69	3,462,440.00	-378,654.31	89.06%	2,878,565.50	3,292,374.00	-413,808.50	87.43%	5,962,351.19	6,754,814.00	-792,462.81	88.27%
Gross Profit	3,083,785.69	3,462,440.00	-378,654.31	89.06%	2,878,565.50	3,292,374.00	-413,808.50	87.43%	5,962,351.19	6,754,814.00	-792,462.81	88.27%
Expense												
3100 · LABOR - OPERATIONS	0.00				542,668.01	813,247.00	-270,578.99	66.73%	542,668.01	813,247.00	-270,578.99	66.73%
3200 VEH & EQUIPMENT												
3201 · Vehicle/Equip Mtce	0.00				23,106.25	30,000.00	-6,893.75	77.02%	23,106.25	30,000.00	-6,893.75	77.02%
3202 · Fixed Capital	0.00				0.00	30,000.00	-30,000.00	0.0%	0.00	30,000.00	-30,000.00	0.0%
3203 · Equipment Rental	0.00				2,773.43	5,000.00	-2,226.57	55.47%	2,773.43	5,000.00	-2,226.57	55.47%
3204 · Miscellaneous	0.00				589.49	5,000.00	-4,410.51	11.79%	589.49	5,000.00	-4,410.51	11.79%
Total 3200 VEH & EQUIPMENT	0.00				26,469.17	70,000.00	-43,530.83	37.81%	26,469.17	70,000.00	-43,530.83	37.81%
3300 · CONTRACT LABOR												
3301 · Conduit, Meter, Valve & Misc	0.00				7,072.94	20,000.00	-12,927.06	35.37%	7,072.94	20,000.00	-12,927.06	35.37%
3302 · Buildings & Roads	0.00				3,177.72	20,000.00	-16,822.28	15.89%	3,177.72	20,000.00	-16,822.28	15.89%
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				10,250.66	95,000.00	-84,749.34	10.79%	10,250.66	95,000.00	-84,749.34	10.79%
3400 · MATERIALS & SUPPLIES												
3401 · Conduit, Meter, Valve & Misc	0.00				17,835.45	65,000.00	-47,164.55	27.44%	17,835.45	65,000.00	-47,164.55	27.44%
3402 · Buildings & Roads	0.00				1,376.82	8,000.00	-6,623.18	17.21%	1,376.82	8,000.00	-6,623.18	17.21%
3403 · Reservoirs	0.00				804.13	5,000.00	-4,195.87	16.08%	804.13	5,000.00	-4,195.87	16.08%
Total 3400 · MATERIALS & SUPPLIES	0.00				20,016.40	78,000.00	-57,983.60	25.66%	20,016.40	78,000.00	-57,983.60	25.66%
3500 · OTHER EXPENSES												
3501 · Utilities	0.00				5,166.00	7,000.00	-1,834.00	73.8%	5,166.00	7,000.00	-1,834.00	73.8%
3502 · Uniforms	0.00				347.35	5,000.00	-4,652.65	6.95%	347.35	5,000.00	-4,652.65	6.95%
3503 · Communications	0.00				13,900.98	18,500.00	-4,599.02	75.14%	13,900.98	18,500.00	-4,599.02	75.14%
3504 · USA & Other Services	0.00				2,569.73	4,000.00	-1,430.27	64.24%	2,569.73	4,000.00	-1,430.27	64.24%
3505 · Miscellaneous	0.00				7,663.94	8,000.00	-336.06	95.8%	7,663.94	8,000.00	-336.06	95.8%
3506 · Training	0.00				394.55	3,000.00	-2,605.45	13.15%	394.55	3,000.00	-2,605.45	13.15%
Total 3500 · OTHER EXPENSES	0.00				30,042.55	45,500.00	-15,457.45	66.03%	30,042.55	45,500.00	-15,457.45	66.03%
4100 · LABOR - FISHERIES	487,577.52	692,409.00	-204,831.48	70.42%	0.00				487,577.52	692,409.00	-204,831.48	70.42%
4200 · VEHICLES & EQUIP - FISHERIES												
4270 · Vehicle/Equip Mtce	14,906.91	15,000.00	-93.09	99.38%	0.00				14,906.91	15,000.00	-93.09	99.38%
4280 · Fixed Capital	0.00	15,000.00	-15,000.00	0.0%	0.00				0.00	15,000.00	-15,000.00	0.0%
4290 · Miscellaneous	166.75	2,500.00	-2,333.25	6.67%	0.00				166.75	2,500.00	-2,333.25	6.67%
Total 4200 · VEHICLES & EQUIP - FISHERIES	15,073.66	32,500.00	-17,426.34	46.38%	0.00				15,073.66	32,500.00	-17,426.34	46.38%

**Cachuma Operation & Maintenance Board
Statement of Revenues and Expenditures**

Budget vs. Actuals July 2018 - Jun 2019

	Fisheries				Operations				TOTAL			
	Jul '18 - Mar 19	\$ Over/(Under)			Jul '18 - Mar 19	\$ Over/(Under)			Jul '18 - Mar 19	\$ Over/(Under)		
		Budget	Budget	% of Budget		Budget	Budget	% of Budget		Budget	Budget	% of Budget
4220 · CONTRACT LABOR - FISHERIES												
4221 · Meters & Valves	0.00	3,000.00	-3,000.00	0.0%	0.00				0.00	3,000.00	-3,000.00	0.0%
4222 · Fish Projects Maintenance	9,575.94	25,000.00	-15,424.06	38.3%	0.00				9,575.94	25,000.00	-15,424.06	38.3%
Total 4220 · CONTRACT LABOR - FISHERIES	9,575.94	28,000.00	-18,424.06	34.2%	0.00				9,575.94	28,000.00	-18,424.06	34.2%
4300 · MATERIALS/SUPPLIES - FISHERIES												
4390 · Miscellaneous	7,065.11	7,000.00	65.11	100.93%	0.00				7,065.11	7,000.00	65.11	100.93%
Total 4300 · MATERIALS/SUPPLIES - FISHER	7,065.11	7,000.00	65.11	100.93%	0.00				7,065.11	7,000.00	65.11	100.93%
4500 · OTHER EXPENSES - FISHERIES												
4502 · Uniforms	272.36	3,500.00	-3,227.64	7.78%	0.00				272.36	3,500.00	-3,227.64	7.78%
Total 4500 · OTHER EXPENSES - FISHERIES	272.36	3,500.00	-3,227.64	7.78%	0.00				272.36	3,500.00	-3,227.64	7.78%
4999 · GENERAL & ADMINISTRATIVE												
5000 · Director Fees	0.00				5,747.30	12,000.00	-6,252.70	47.89%	5,747.30	12,000.00	-6,252.70	47.89%
5001 · Director Mileage	0.00				362.40	1,000.00	-637.60	36.24%	362.40	1,000.00	-637.60	36.24%
5100 · Legal	0.00				57,955.79	75,000.00	-17,044.21	77.27%	57,955.79	75,000.00	-17,044.21	77.27%
5101 · Audit	0.00				13,985.68	22,750.00	-8,764.32	61.48%	13,985.68	22,750.00	-8,764.32	61.48%
5150 · Unemployment Tax	0.00				0.00	5,000.00	-5,000.00	0.0%	0.00	5,000.00	-5,000.00	0.0%
5200 · Liability Insurance	0.00				38,542.40	50,551.00	-12,008.60	76.25%	38,542.40	50,551.00	-12,008.60	76.25%
5310 · Postage/Office Exp	0.00				3,933.06	5,000.00	-1,066.94	78.66%	3,933.06	5,000.00	-1,066.94	78.66%
5311 · Office Equip/Leases	0.00				6,540.55	9,200.00	-2,659.45	71.09%	6,540.55	9,200.00	-2,659.45	71.09%
5312 · Misc Admin Expenses	0.00				11,551.13	11,500.00	51.13	100.45%	11,551.13	11,500.00	51.13	100.45%
5313 · Communications	0.00				5,609.72	8,500.00	-2,890.28	66.0%	5,609.72	8,500.00	-2,890.28	66.0%
5314 · Utilities	0.00				6,882.23	9,737.00	-2,854.77	70.68%	6,882.23	9,737.00	-2,854.77	70.68%
5315 · Membership Dues	0.00				9,377.65	9,345.00	32.65	100.35%	9,377.65	9,345.00	32.65	100.35%
5316 · Admin Fixed Assets	0.00				1,938.92	3,000.00	-1,061.08	64.63%	1,938.92	3,000.00	-1,061.08	64.63%
5318 · Computer Consultant	0.00				10,957.22	15,000.00	-4,042.78	73.05%	10,957.22	15,000.00	-4,042.78	73.05%
5325 · Emp Training/Subscriptions	0.00				595.04	2,000.00	-1,404.96	29.75%	595.04	2,000.00	-1,404.96	29.75%
5330 · Admin Travel/Conferences	0.00				16.30	2,000.00	-1,983.70	0.82%	16.30	2,000.00	-1,983.70	0.82%
5331 · Public Information	0.00				664.27	3,500.00	-2,835.73	18.98%	664.27	3,500.00	-2,835.73	18.98%
5317 · Admin Contract Labor	0.00				23,614.72	47,680.00	-24,065.28	49.53%	23,614.72	47,680.00	-24,065.28	49.53%
Total 4999 · GENERAL & ADMINISTRATIVE	0.00				198,274.38	292,763.00	-94,488.62	67.73%	198,274.38	292,763.00	-94,488.62	67.73%
5299 · ADMIN LABOR	0.00				403,011.14	549,881.00	-146,869.86	73.29%	403,011.14	549,881.00	-146,869.86	73.29%
5400 · GENERAL & ADMIN - FISHERIES												
5407 · Legal - FD	1,265.00	20,000.00	-18,735.00	6.33%	0.00				1,265.00	20,000.00	-18,735.00	6.33%
5410 · Postage / Office Supplies	2,147.89	4,000.00	-1,852.11	53.7%	0.00				2,147.89	4,000.00	-1,852.11	53.7%
5411 · Office Equipment / Leases	3,521.79	5,418.00	-1,896.21	65.0%	0.00				3,521.79	5,418.00	-1,896.21	65.0%
5412 · Misc. Admin Expense	4,949.52	7,500.00	-2,550.48	65.99%	0.00				4,949.52	7,500.00	-2,550.48	65.99%
5413 · Communications	3,495.19	5,805.00	-2,309.81	60.21%	0.00				3,495.19	5,805.00	-2,309.81	60.21%
5414 · Utilities	3,705.85	5,243.00	-1,537.15	70.68%	0.00				3,705.85	5,243.00	-1,537.15	70.68%
5415 · Membership Dues	4,921.35	5,955.00	-1,033.65	82.64%	0.00				4,921.35	5,955.00	-1,033.65	82.64%
5416 · Admin Fixed Assets	1,044.03	3,000.00	-1,955.97	34.8%	0.00				1,044.03	3,000.00	-1,955.97	34.8%
5417 · Admin Contract Labor	12,715.65	23,110.08	-10,394.43	55.02%	0.00				12,715.65	23,110.08	-10,394.43	55.02%
5418 · Computer Consultant	5,899.98	7,000.00	-1,100.02	84.29%	0.00				5,899.98	7,000.00	-1,100.02	84.29%
5425 · Employee Education/Subscription	2,215.40	2,500.00	-284.60	88.62%	0.00				2,215.40	2,500.00	-284.60	88.62%
5426 · Director Fees	3,094.70	6,500.00	-3,405.30	47.61%	0.00				3,094.70	6,500.00	-3,405.30	47.61%
5427 · Director Mileage	195.14	500.00	-304.86	39.03%	0.00				195.14	500.00	-304.86	39.03%
5430 · Travel	1,248.82	2,500.00	-1,251.18	49.95%	0.00				1,248.82	2,500.00	-1,251.18	49.95%

Cachuma Operation & Maintenance Board
Statement of Revenues and Expenditures
 Budget vs. Actuals July 2018 - Jun 2019

	Fisheries				Operations				TOTAL			
	Jul '18 - Mar 19	\$ Over/(Under)			Jul '18 - Mar 19	\$ Over/(Under)			Jul '18 - Mar 19	\$ Over/(Under)		
		Budget	Budget	% of Budget		Budget	Budget	% of Budget		Budget	Budget	% of Budget
5431 · Public Information	1,357.69	1,500.00	-142.31	90.51%	0.00				1,357.69	1,500.00	-142.31	90.51%
5441 · Audit	7,153.82	12,250.00	-5,096.18	58.4%	0.00				7,153.82	12,250.00	-5,096.18	58.4%
5443 · Liab & Property Ins	20,753.60	24,745.00	-3,991.40	83.87%	0.00				20,753.60	24,745.00	-3,991.40	83.87%
Total 5400 · GENERAL & ADMIN - FISHERIES	79,685.42	137,526.08	-57,840.66	57.94%	0.00				79,685.42	137,526.08	-57,840.66	57.94%
5499 · ADMIN LABOR-FISHERIES	147,096.37	211,508.92	-64,412.55	69.55%	0.00				147,096.37	211,508.92	-64,412.55	69.55%
5510 · Integrated Reg. Water Mgt Plan	0.00				5,114.93	5,000.00	114.93	102.3%	5,114.93	5,000.00	114.93	102.3%
6000 · SPECIAL PROJECTS												
6062 · SCADA	0.00				812.01	20,000.00	-19,187.99	4.06%	812.01	20,000.00	-19,187.99	4.06%
6090 · COMB Office Building	0.00				0.00	200,000.00	-200,000.00	0.0%	0.00	200,000.00	-200,000.00	0.0%
6096 · SCC Structure Rehabilitation	0.00				514,741.13	484,400.00	30,341.13	106.26%	514,741.13	484,400.00	30,341.13	106.26%
6096-2 · SCC Str Rehab Thomas DebrisFlow	0.00				15,690.82				15,690.82	0.00	15,690.82	100.0%
6097 · GIS and Mapping	0.00				5,658.44	10,000.00	-4,341.56	56.58%	5,658.44	10,000.00	-4,341.56	56.58%
6105 · ROW Management Program	0.00				2,975.00	20,000.00	-17,025.00	14.88%	2,975.00	20,000.00	-17,025.00	14.88%
6118 · Repair Lateral 3 Structure	0.00				88,384.50	100,000.00	-11,615.50	88.39%	88,384.50	100,000.00	-11,615.50	88.39%
6120 · Emergency Pumping Fac Project	0.00				64,510.17	230,000.00	-165,489.83	28.05%	64,510.17	230,000.00	-165,489.83	28.05%
6122 · Rehab San Antonio Crk Blow-off	0.00				73,296.26	60,000.00	13,296.26	122.16%	73,296.26	60,000.00	13,296.26	122.16%
6132 · Sycamore Canyon Slope Stabiliz	0.00				30,370.91	500,000.00	-469,629.09	6.07%	30,370.91	500,000.00	-469,629.09	6.07%
6132-1 · SycCynSlopeStab-CO Funds FY201	0.00				0.00	-500,000.00	500,000.00	0.0%	0.00	-500,000.00	500,000.00	0.0%
6136 · SCC Isolation Valve Evaluation	0.00				0.00	25,000.00	-25,000.00	0.0%	0.00	25,000.00	-25,000.00	0.0%
6137 · SCC Lower Reach Lateral Structu	0.00				0.00	50,000.00	-50,000.00	0.0%	0.00	50,000.00	-50,000.00	0.0%
6138 · Cachuma Watershed Mgmt Study ⁽¹⁾	0.00				52,416.07	143,583.00	-91,166.93	36.51%	52,416.07	143,583.00	-91,166.93	36.51%
Total 6000 · SPECIAL PROJECTS	0.00				848,855.31	1,342,983.00	-494,127.69	63.21%	848,855.31	1,342,983.00	-494,127.69	63.21%
6200 · FISHERIES ACTIVITIES												
6201 · FMP Implementation	5,283.81	45,000.00	-39,716.19	11.74%	0.00				5,283.81	45,000.00	-39,716.19	11.74%
6202 · GIS and Mapping	2,933.44	10,000.00	-7,066.56	29.33%	0.00				2,933.44	10,000.00	-7,066.56	29.33%
6203 · Grants Technical Support	0.00	10,000.00	-10,000.00	0.0%	0.00				0.00	10,000.00	-10,000.00	0.0%
6204 · SYR Hydrology Technical Support	0.00	6,000.00	-6,000.00	0.0%	0.00				0.00	6,000.00	-6,000.00	0.0%
6205 · USGS Stream Gauge Program	55,388.18	100,000.00	-44,611.82	55.39%	0.00				55,388.18	100,000.00	-44,611.82	55.39%
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	15,787.37	40,000.00	-24,212.63	39.47%	0.00				15,787.37	40,000.00	-24,212.63	39.47%
Total 6200 · FISHERIES ACTIVITIES	79,392.80	216,000.00	-136,607.20	36.76%	0.00				79,392.80	216,000.00	-136,607.20	36.76%
6300 · HABITAT ENHANCEMENT												
6303 · Tributary Projects Support	9,428.41	20,000.00	-10,571.59	47.14%	0.00				9,428.41	20,000.00	-10,571.59	47.14%
6315 · Quiota Creek Crossing 8	6,655.82	30,000.00	-23,344.18	22.19%	0.00				6,655.82	30,000.00	-23,344.18	22.19%
6316 · Quiota Creek Crossing 5	942,239.48	960,000.00	-17,760.52	98.15%	0.00				942,239.48	960,000.00	-17,760.52	98.15%
6317 · Salsipuedes Fish Ladder Repair	0.00	8,000.00	-8,000.00	0.0%	0.00				0.00	8,000.00	-8,000.00	0.0%
6318 · Quiota Creek Crossing 9	1,102,328.39	1,115,996.00	-13,667.61	98.78%	0.00				1,102,328.39	1,115,996.00	-13,667.61	98.78%
Total 6300 · HABITAT ENHANCEMENT	2,060,652.10	2,133,996.00	-73,343.90	96.56%	0.00				2,060,652.10	2,133,996.00	-73,343.90	96.56%
7007 · INTEREST EXPENSE-EPPF	0.00				34,219.65				34,219.65	0.00	34,219.65	100.0%
Total Expense	2,886,391.28	3,462,440.00	-576,048.72	83.36%	2,118,922.20	3,292,374.00	-1,173,451.80	64.36%	5,005,313.48	6,754,814.00	-1,749,500.52	74.1%
Net Surplus/(Deficit)	\$197,394.41	\$0.00	\$197,394.41	100.0%	\$759,643.30	\$0.00	\$759,643.30	100.0%	\$957,037.71	\$0.00	\$957,037.71	100.0%

Footnote/Disclosure:

⁽¹⁾ The budget for the Cachuma Watershed Management Study was adjusted to reflect Phase I costs only (\$143,583). The second phase of the project will commence in fiscal year 2019-20 for a cost of \$275,085.

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CACHUMA OPERATION & MAINTENANCE BOARD

BOARD MEMORANDUM

Date:	April 22, 2019
Submitted by:	Janet Gingras

SUBJECT: Investment Report – March 31, 2019

RECOMMENDATION

The Board of Directors receive and file the Cachuma Operation and Maintenance Board Investment Report as of March 31, 2019.

DISCUSSION

Cash and investment programs are maintained in accordance with California Government Code Section 53600 et seq. and COMB's adopted investment policy. These policies ensure proper control and safeguards are maintained throughout the financial transaction process. Pursuant to State law, the COMB Board adopts a detailed investment policy through a Board resolution on an annual basis.

Reports on COMB's investment portfolio and cash position are developed and presented to the COMB Board on a monthly basis, in conformity with the California Government Code.

Unrestricted Cash

Unrestricted cash exceeding current operating needs is invested in LAIF to generate interest income. The average monthly effective yield rate, as of March 2019, is reported at 2.436%.

See Table 1 below for a summary of balances held in unrestricted accounts.

TABLE 1			
Unrestricted Reserve Funds		Date	Principal
Local Agency Investment Fund (LAIF)			
Previous Balance		02/28/2019	\$ 1,283,070.07
(+) Deposits/Credits			-
(-) Checks/Withdrawals		03/27/2019	(400,000.00)
Statement Balance		03/31/2019	\$ \$883,070.07

Restricted Cash

The Cachuma Project Warren Act Trust Fund (Trust Fund) and Cachuma Project Master Contract Renewal Fund (Renewal Fund) are two separate funds that have been established through contracts with the U.S. Bureau of Reclamation (Reclamation). The Trust Fund and the Renewal Fund require annual and five-year plans which are used to inform the Funds Committee in making decisions on expenditures for betterment of the Cachuma Project.

See Table 2 below for a summary of balances held in restricted accounts.

TABLE 2			
Restricted Reserve Funds		Date	Principal
American Riviera Bank Renewal Account			
	Previous Balance	02/28/2019	\$ 10,215.61
	(+) Deposits/Credits		-
	(-) Checks/Withdrawals		-
	Statement Balance	03/31/2019	\$ 10,215.61
American Riviera Bank Warren Acct Trust Fund			
	Previous Balance	02/28/2019	\$ 727,325.77
	(+) Deposits/Credits		-
	(-) Checks/Withdrawals	03/25/2019	(75,904.12)
	Statement Balance	03/31/2019	\$ 651,421.65

STATEMENT

The above statement of investment activity for the month of March, 2019, 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 and LAIF investments of this agency for the period indicated.



 Secretary

Cachuma Operation & Maintenance Board

Paid Claims

As of March 31, 2019

Date	Num	Name	Memo	Amount
1050 - General Fund				
03/07/2019	26697	AT&T	Long Distance Charges 1/28/19-2/27/19	-684.20
03/07/2019	26698	Bartlett, Pringle & Wolf, LLP	Audit Services FY 2017-18	-55.00
03/07/2019	26699	Business Card	Website Hosting, Software, Fisheries Camera, Membership, Supplies (Ops Fish Adm)	-1,463.60
03/07/2019	26700	Cabela's LLC/Bass Pro LLC	Waders (Fish)	-237.11
03/07/2019	26701	Charles T. Plough, III	Director Meeting Fees February 2019	-161.60
03/07/2019	26702	City of Santa-Barbara	Trash / Recycling 1/30/19-2/27/19	-249.88
03/07/2019	26703	Culligan of Sylmar	RO Rental 3/1/19-3/31/19	-28.95
03/07/2019	26704	ECHO Communications	Message Service February 2019	-70.75
03/07/2019	26705	Employee Relations, Inc.	Background Check (Ops)	-66.35
03/07/2019	26706	Frontier Communications	Phone Service - Ortega Reservoir	-59.89
03/07/2019	26707	Frontier Communications	Phone Service - North Portal	-59.92
03/07/2019	26708	Frontier Communications	Phone Service - Carpinteria	-59.89
03/07/2019	26709	Frontier Communications	Phone Service - Main & Outlying Stations	-428.64
03/07/2019	26710	Harrison Hardware	Supplies (Fish)	-216.65
03/07/2019	26711	HDR Engineering, Inc.	Engineering Services - FMP, Fish Monitoring, Quiota Creek Crossings 5, 8 & 9 (January)	-10,604.48
03/07/2019	26712	HDR Engineering, Inc.	Engineering Services - FMP, Tributary Projects, Quiota Creek Crossing 5 & 8 (February)	-12,273.84
03/07/2019	26713	Ian's Tire & Auto Repair	2008 Ford Explorer - Replace 4 Tires (Ops)	-683.42
03/07/2019	26714	Kristen Sneddon	Director Meeting Fees February 2019	-154.81
03/07/2019	26715	Lauren W. Hanson	Director Meeting Fees February 2019	-311.60
03/07/2019	26716	Manzanita Nursery	Oak Tree Program - 4 Seedlings	-68.96
03/07/2019	26717	Nestle Pure Life Direct	Operations - Safety	-49.18
03/07/2019	26718	Paychex, Inc. (Payroll)	Payroll & Payroll Tax Services 2/8/19 & 2/22/19	-371.99
03/07/2019	26719	Polly Holcombe	Director Meeting Fees February 2019	-288.82
03/07/2019	26720	Powell Garage	2003 Ford F150 - Oil change, filter, brake pads & rotors (Fish)	-516.83
03/07/2019	26721	SB Home Improvement Center	Supplies (Fish)	-54.53
03/07/2019	26722	Southern California Edison	Electricity - Main & Outlying Stations	-1,364.10
03/07/2019	26723	Tri-Co Reprographics	Printing - Quiota Creek Crossings 5 & 9	-56.05
03/07/2019	26724	Turenchalk Network Services, Inc.	Network & Software Support	-1,455.80
03/07/2019	26725	Underground Service Alert of So. Calif.	Ticket Charges & Database Fee	-89.20
03/07/2019	26726	Wright Express Fleet Services	Fleet Fuel February 2019	-3,768.09
03/25/2019	ACH032519A	American Riviera Bank (ARB)	EPFP Loan Payment 1 of 2	-28,123.75
03/25/2019	ACH032519B	American Riviera Bank (ARB)	EPFP Loan Payment 2 of 2	-10,354.21
03/25/2019	26727	ACWA/Joint Powers Insurance Authority	Excess Crime Policy Extension	-236.00
03/25/2019	26728	Aqua-Flo Supply	Intake Tower Wash Pump parts (Ops)	-465.10
03/25/2019	26729	Bureau of Reclamation	2nd Period Entitlement 4/1/19-9/30/19	-1,553,498.81
03/25/2019	26730	City of Santa Barbara-Central Stores	Supplies (Ops)	-237.53
03/25/2019	26731	Coastal Copy, LP	Copier Maintenance Agreement February 2019 Taskalfas 3051ci & 6052ci	-596.82
03/25/2019	26732	County of Santa--Barbara	Mulch & Dump Fees (Ops & Fish)	-714.08
03/25/2019	26733	Cox Communications Santa Barbara	Business Internet - March	-140.00
03/25/2019	26734	Cushman Contracting Corp.	Emergency Pumping System - Pay Req #59 Phase II	-7,000.00
03/25/2019	26735	Dig Safe Board	Annual Regulatory Fee (Ops)	-993.98
03/25/2019	26736	Federal Express	Shipping - Admin	-42.23
03/25/2019	26737	Filippin Engineering, Inc.	Quiota Creek Crossing 5 - Engineering Services	-175.68
03/25/2019	26738	Flowers & Associates, Inc.	Sycamore Canyon Slide Repair - Engineering Services	-4,548.93
03/25/2019	26739	Frontier Communications	Phone Service - SCADA	-571.34
03/25/2019	26740	Giffin Rental & Western Welding	Supplies (Ops)	-18.88
03/25/2019	26741	Home Depot Credit Services	Supplies (Ops)	-566.85
03/25/2019	26742	J&C Services	Office Cleaning Service - Weekly 2/15/19-3/8/19	-600.00
03/25/2019	26743	MarBorg Industries	Portable Facilities - Outlying Stations	-358.22
03/25/2019	26744	Pitney Bowes Global Financial Services LL	Postage Meter Quarterly Lease Payment 4/10/19-7/9/19	-436.16
03/25/2019	26745	Southern California Edison	Electricity - Outlying Stations	-65.21
03/25/2019	26746	Spatial Wave	GIS & Mapping - Field Mapplet Software Maintenance Apr-Jun 2019	-925.00
03/25/2019	26747	Staples Credit Plan	Office Supplies (Ops & Fish)	-558.88
03/25/2019	26748	The Gas Company	Gas - Main Office	-52.33
03/25/2019	26749	Verizon Wireless	Operations Cell Phone, Wireless Modems & SCADA USBs	-816.13
03/25/2019	26750	Woodard & Curran	Lake Cachuma Water Quality & Sediment Study - Professional Services	-18,624.77

Paid Claims

As of March 31, 2019

<u>Date</u>	<u>Num</u>	<u>Name</u>	<u>Memo</u>	<u>Amount</u>
03/29/2019	26751	Bureau of Reclamation	USBR 2015-2016 Deficit Payment - City of Santa Barbara	-366,720.74
03/29/2019	26752	Association of Ca Water Agencies/JPIA	April Health Benefits Coverage	-32,945.78
03/29/2019	26753	Musick, Peeler & Garrett LLP	General Counsel - January	-11,707.80
03/29/2019	26754	United States Geological Survey	USGS Quarterly Joint Funding Agreement 11/1/18-1/31/19	-24,387.50
Total 1050 - General Fund				<u>-2,102,436.84</u>
TOTAL				<u>-2,102,436.84</u>

APPROVED FOR PAYMENT

_____ Director

_____ Director

_____ Director

CACHUMA OPERATION & MAINTENANCE BOARD

Operations Committee Meeting

3301 Laurel Canyon Road
Santa Barbara, CA 93105

Tuesday, April 16, 2019
9:30 a.m.

AGENDA

Chair: Director Sneddon
Member: Director Holcombe

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. Operations / Engineering Projects Update (*for information and possible recommendation*)
 - Water Quality and Sediment Management Study
 - Annex to Santa Barbara County Multi-Jurisdictional Hazard Mitigation Plan
 - Five-Year Infrastructure Improvement Plan (IIP)
 - Sycamore Canyon Slope Stabilization Project
4. Emergency Pumping Facility Project (*for information and possible recommendation*)
 - a. Cushman Contracting Corporation – Contract
 - b. Makai Ocean Engineering
5. Construction Projects within USBR Right-of-Way (*for information*)
6. Adjournment

NOTICE TO THE PUBLIC

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

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

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

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CACHUMA OPERATION & MAINTENANCE BOARD

BOARD MEMORANDUM

Date:	April 22, 2019
Prepared by:	Joel Degner
Approved by:	Janet Gingras

SUBJECT: **Cachuma Conveyance Operations**
Emergency Pumping Facility Project Options Spring 2019

RECOMMENDATION:

The Board approve the proposed continuation (option 1) of the Cushman Contracting Corporation contract for the storage of the Emergency Pumping Facility Project components on a month to month basis at a cost of \$3,500/month (1/2 of current amount) and authorize the General Manager to execute a change order to reflect the continuation of the contract and reduced monthly storage costs.

SUMMARY:

The elevation of Lake Cachuma has surpassed 150,000 acre-feet in storage and is nearly at 80 percent capacity with over 95,000 acre-feet of computed inflow in Water Year 2018-2019. Based on the current lake levels and reservoir operations, the Emergency Pumping Facility Project (EPFP) will likely not need to be deployed until the summer 2021 at the earliest for use in the fall/winter of 2021 assuming dry winter seasons in both 2019-20 and 2020-21. Changes in reservoir operations could impact this timeline.

The lake levels have increased so that the pipeline floated from where it was stored on the lake bottom. On April 2nd, the stored DR26 pipeline for the EPFP was relocated to the lake shore near the Fire Camp at approximately 740 to 750 feet in elevation in collaboration with the County/Bureau of Reclamation/Chumash. COMB's existing contract to store the key components of the EPFP pumping barge currently costs \$7,000/month. COMB has the option to extend the monthly payments and services for the storage of the key components or terminate them on May 1, 2019 under the existing contract. After May 1, 2019, Cushman Contracting offered reduced monthly storage and maintenance costs of \$3,500 per month to continue the contract. The following two options are recommended for consideration:

Option 1: Extend the Contract: The contract would be extended at a lower monthly storage rate (\$3,500 per month). The pipeline storage issues have been resolved with the pipeline relocated to the high-level lake shoreline near the Fire Camp. The low elevation threshold of 685 feet for EPFP deployment would continue to be used for planning purposes. Having the key components and pipeline stored allows the lake to drop to a much lower elevation before the costly decision of deploying the EPFP needs to be made.

Option 2: Terminate the Contract: The contract would be terminated and monthly payments would cease. The contractor would remove the pipeline from the lake and liquidate the key components of the system. A new bid would be required for future EPFP installation. This bid would likely be initiated at an elevation of 700 feet to provide sufficient lead time for the pipeline and electrical components. This would require increased engineering costs and undetermined contractor costs which could potentially increase.

In addition, COMB hired Makai Ocean Engineering to evaluate the existing pipeline for suitability for a bottom-mounted application. Makai recommends installing unstiffened DR17 pipeline with some pressure surge mitigation measures (controlling vent vacuum relief valves at pump station and inflow check valve). Makai evaluated the deployment of the bottom-mounted pipeline at an elevation of 700 feet or less. Installing the bottom-mounted pipeline at a higher elevation would require more evaluation and more complication to the installation related to managing bending stresses on the pipeline. Makai investigated the feasibility of

connecting the permanent pipeline on the lake bottom to the floating pump station by means of a flexible HDPE pipe (250 feet in length). The pipe would be in a 3-dimensional bend with changing bend radius as the water level in Lake Cachuma rises or falls. Additional weights attached to the connection pipeline keep it submerged during use. When not in use and detached from the pump station, the pipe end can be closed with a blind flange and be moored close to shore. Makai Ocean Engineering provided a rough order of magnitude opinion of probable costs of \$1,500,000 for the installation of the bottom mounted pipeline. This does not include significant dredging around the tower or a gravity intake system when the pumping system is not in use. COMB has submitted the Secured Pipeline Project for IRWMP grant funding and for U.S. Bureau of Reclamation WaterSmarts Drought Resiliency Project grant funding.

BACKGROUND:

EXISTING CONTRACT:

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

In January 2014, COMB solicited Requests for Qualifications (RFQ) from twelve contractors and engineering firms for the EPFP. Four contractors provided statements of qualifications and subsequently three were selected to receive a Request for Proposal (RFP) including Cushman Contracting Corporation, Pascal and Ludwig Contractors, and Specialty Construction Inc. COMB received two bid proposals for the project from Specialty Construction, Inc. and Cushman Contracting Corporation (CCC). For design, mobilization, and construction¹ to Site 1, the Specialty Construction bid was \$7,074,775 and Cushman Contracting Corporation was \$3,968,000.

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

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

In April 2017, with lake elevation at 715 ft amsl, the COMB board analyzed various alternatives for disposition of the Emergency Pumping Facility Project and approved Alternative 1A: Extended Contract Operations due to it being the lowest cost alternative for one additional installation. Staff negotiated significant discounts for the extension of the contract in Change Order No. 15 which reduced the site 1 installation costs by 60 percent and operational costs by 37 percent. The cumulative costs of the implementation and operation of the EPFP during the 2014 to 2017 period were approximately \$8.6 million. With a repeat of the drought from 2014-2017 the EPFP would cost \$4.3 million under the current terms of Change Order No.15/17 for extended operations, or approximately half.

Due to the potential for the system to be installed and not utilized in April 2018, COMB requested that CCC evaluate whether it would be possible to install the facility at a lower lake elevation. At a lower elevation, a larger barge and crane would be required to drive the piles which would increase the costs. CCC agreed to Change Order No. 17 according to the following conditions:

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

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

Change Order No. 17, increased the Site 1 installation costs for Change Order No 15 by \$178,375.

COMB has the option to extend the monthly payments and services for the storage of the key components or terminate them on May 1, 2019 under the existing contract. After May 1, 2019, Cushman Contracting offered reduced monthly storage and maintenance costs to \$3,500 per month to continue the contract. The following two options are recommended for consideration:

- 1) **Extend Contract:** The pipeline has been relocated along the lake shore near the Fire Camp. Under this scenario, the barge components would continue to be stored offsite with the pipeline stored on the shore at Lake Cachuma.

Costs: Monthly storage costs would be \$3,500/month (half the previous storage costs).

Benefits: The extended contract allows a low elevation trigger for EPFP installation. According to the existing contract, the EPFP installation would be triggered 45 calendar days before the lake reaches an elevation of 685 feet. In 2014, the EPFP was installed at 700 feet in lake elevation and was not utilized for 15 months through the winter period in 2014-2015. With the extended contract in place and the key components in storage and pipeline at the Lake, the lake dropped to 691 feet in November 2018. However, the EPFP was not installed and inflow in 2018-2019 reduced the need for installation. The \$168,000 spend on storage over the 2-year period (May 2017 to May 2019), provided the assurance to allow the lake to drop to a lower elevation and saved approximately \$1,600,000.

Table 2. Extended Contract Operations Costs

Item	Change Order No. 15/17
Prep Equip for Storage	---
Maintain + store/month	\$3,500
Re-install at site 1	\$1,666,375
Standby Ops/month	\$30,000
Site 1 Ops/month	\$50,000
Relocate from site 1 to site 2	\$765,000
Site 2 Ops/month	\$76,000

- 2) **End Contract** – Remove stored pipe at the Lake. Contractor cuts and transports stored pipe offsite. Contractor would no longer store the EPF barge components for future use. In the event of a future drought, a new bid would be prepared for the installation of a new conveyance pipeline and pumping system. Previously the EPFP planning process began in earnest at an elevation of 702 feet in December 2013.

Costs: Not having a contract in place and not having the key components in storage would require earlier planning for the EPFP deployment. A new bid would likely need to be issued for construction. There could be a long lead time on the pipeline and electrical components. In order to assure water deliveries, action would need to be taken on the project at a higher lake elevation (~700 feet).

Benefits: No monthly storage costs.

FORECASTED LAKE ELEVATIONS:

The Lake Elevation Projection Model has been updated with data through April 10th, 2019. COMB Member Agencies provided updated import/exports forecasts in April 2019. Water deliveries from CCWA have not occurred in March due to issues related to the Hilton Creek Watering System (HCWS). Currently, Hilton Creek is being supplied through the Emergency Backup System through the penstock on gravity flow. The preliminary lake model results assume CCWA deliveries could resume in June 2019 in the optimistic/realistic scenario. In the conservation scenario CCWA deliveries would not occur until the elevation of 719' is reached. CCWA deliveries could resume with either the repair of the HCWS or installation of the proposed CCWA bypass.

The baseflow recession curve developed by the County of Santa Barbara was used to model the receding inflow through the end of April 2019. Dry conditions similar to 2013 were assumed for the rest of the Water Year 2019 and for Water Year 2020 and Water Year 2021. In the realistic scenario, an ANA downstream release of 5,000 acre-feet (AF) is assumed for 2019 (similar to 2014) and a 17,000 AF ANA/BNA release is assumed in 2020 (similar to 2013) by Santa Ynez River Water Conservation District (SYRWCD). However, in wetter-than-normal years SYRWCD has not always requested a downstream release.

Figure 1 presents the preliminary projected elevation at Lake Cachuma through September 2021 assuming a repeat of dry year hydrology. Based on the terms of the contract, COMB would need to issue CCC a Notice to Proceed (NTP) not later than 45 days before the lake drops below elevation 685 ft to mobilize and install the pilings and pipeline to Site 1 and build the pump station. With the increase in lake levels, the lake elevation is projected to remain above 685 through at least the Summer of 2021. Implementation of the EPFP will not likely be needed until the Summer/Fall of 2021 in the conservative scenario if the next two winter periods are dry.

Table 3. Lake Elevation Projection Scenarios

Parameter	Optimistic	Realistic	Conservative
SCC Exports	80% Forecast	Forecast	120% of Forecast
CCWA Inflow	120% Forecast (resumes June 2019)	Forecast (resumes June 2019)	80% Forecast - resumes at Elev 719
WR 89-18 Release	0 AF (2019), 17,000 AF (2020), 5,000 AF (2021)	5,000 AF (2019), 17,000 AF (2020)	5,000 AF (2019), 17,000 AF (2020)

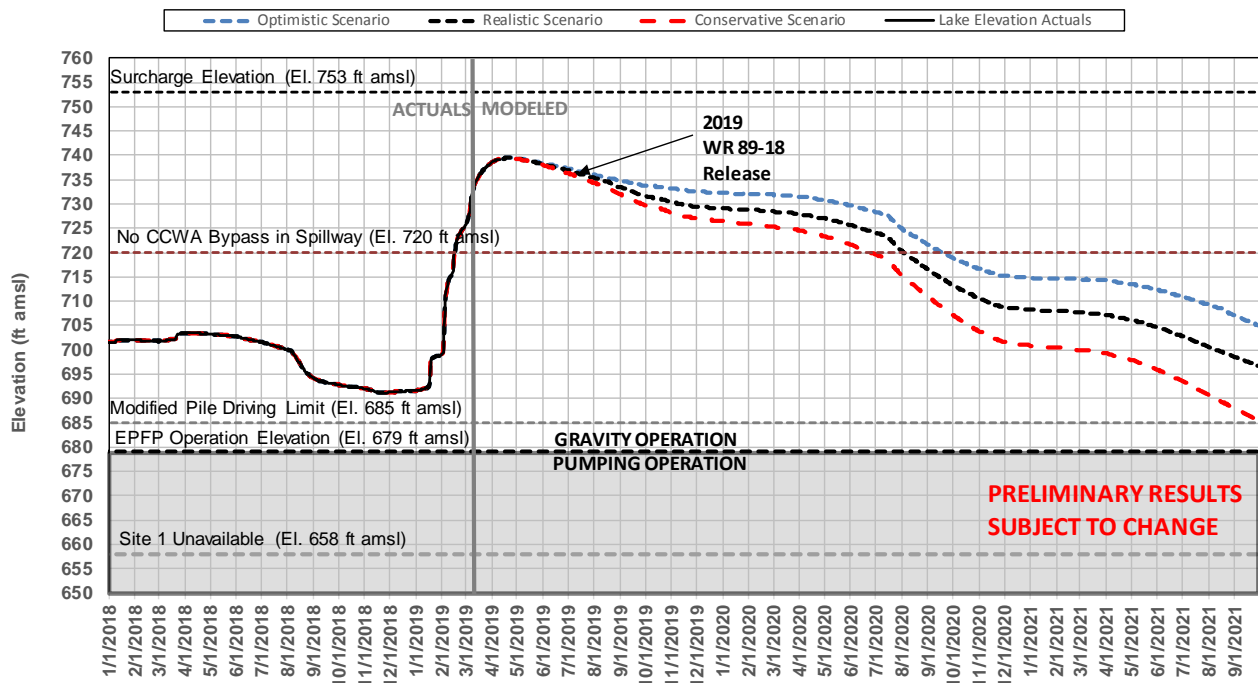


Figure 1. Lake Cachuma Elevation Forecast (as of 4/10/2019) using 2013 Dry Year Hydrology

FISCAL IMPACTS:

The current fiscal year operating budget contains funding for the storage costs through June 2019. The Fiscal Year 2019-20 Operating Budget will contain funding for the reduced storage costs.

LEGAL CONCURRENCE:

Legal Counsel has reviewed the terms of the proposed change order.

ENVIRONMENTAL COMPLIANCE:

Environmental permits for this project are in the process of being renewed.

COMMITTEE STATUS:

The Operations Committee reviewed the proposed continuation (option 1) of the Cushman Contracting Corporation contract for the storage of the Emergency Pumping Facility Project components on a month to month basis at a cost of \$3,500/month (1/2 of current amount) and forwards to the Board with a recommendation to approve; and authorize the General Manager to execute a change order to reflect the continuation of the contract and reduced monthly storage costs.

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CACHUMA OPERATION & MAINTENANCE BOARD

BOARD MEMORANDUM

Date:	April 22, 2019
Submitted by:	Janet Gingras

SUBJECT: U.S. Bureau of Reclamation Owned Facilities

RECOMMENDATION:

The Board of Directors receive information on U.S. Bureau of Reclamation owned facilities and provide direction to staff.

SUMMARY:

The Hilton Creek Watering System is owned and operated by the Bureau of Reclamation. When the Hilton Creek emergency backup system is being operated to deliver gravity flows to Hilton Creek, the Bradbury Dam penstock is being utilized. During those times, CCWA delivers state project water to the lake by utilizing their bypass pipeline which is installed through one of the gates on Bradbury Dam.

The Bureau of Reclamation recently provided updated elevation parameters for delivery of state water to the lake which range from 715' to ~733'. Under rising lake conditions, the 715' parameter is the limit for removing the bypass pipeline in order for Reclamation to close the gates. On February 13, 2019, CCWA removed the bypass pipeline and ceased state water deliveries to the lake due to the rising lake elevation.

Theoretically, when the lake elevation reaches ~733', Reclamation would begin gravity flow operations to Hilton Creek by utilizing the Hilton Creek Watering System (HCWS) in the lake instead of the gravity flow through the emergency backup system (as is the case currently). Under those conditions, state water would be delivered to the lake through the penstock. The lake elevation reached 733' on March 10, 2019, however, the HCWS was non-operational at that time thereby eliminating deliveries of state water until such time the HCWS is repaired and becomes operational or an alternative SWP delivery method is approved by Reclamation.

As mentioned in previous reporting, the Hilton Creek watering system was observed listing to one side as the lake water was rising during this past winter storm period. COMB staff notified Reclamation immediately of the concern. The result of the listing barge created a failure of the electrical components (transformer) which operates the system. In addition, the pipelines connecting the intake snorkel to the pumping barge were abnormally protruding near the surface of the lake during this time. Subsequently, Reclamation determined that components of the electrical system had failed while submerged under water and that the cable attaching the snorkel intake to the barge was frayed and torn apart, making the system inoperable.

Staff has contacted CCWA and relayed information obtained from Reclamation related to the process for repairs of the HCWS. CCWA submitted a proposal to Reclamation on March 4th, 2019 for installation of a revised bypass pipeline in order to resume state water deliveries to the lake. Timeframes for the repair of the HCWS or approval of the CCWA proposal are unknown at this time. COMB is responsible for

operational conveyance of state project water once delivered to the lake and available as Member Agency's supply.

Staff is recommending the Board President execute a letter and send to Reclamation Management expressing the Boards' concern regarding the condition of the HCWS, deficiencies in the maintenance schedule, the unknown costs to the Member Agencies related to deferring maintenance on this infrastructure, and potential costs related to the termination of state water deliveries to the lake, in particular in consideration of potential future operational drought conditions.



Mission Statement:

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

April 22, 2019

General Manager Report

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

Meetings

- **Member Agency Staff Meeting**

In mid-April, staff conducted a meeting with Member Agency staff to discuss the continued development of the Infrastructure Improvement Plan (IIP), proposed options for the Emergency Pumping Facility Project contract, status of the Water Quality and Sediment Management Study, and the draft COMB FY 2019-20 Operating Budget. The Member Agencies provided comments on each subject matter which have been incorporated into documents prior to presentation to the Operations Committee and the Board.

A progress update on the IIP development was presented to the Operations Committee for information and will advance to approvals from the Committee and Board of Directors once the draft document has progressed through the Member Agency process. In addition to the IIP discussion, staff presented material related to projected lake elevations, the third engineering technical memorandum on the pipeline feasibility study, and discussions related to the current emergency pumping facility contract. Staff updated the Member Agencies on the Water Quality and Sediment Management Study currently being conducted by Woodard and Curran consultants.

- **Santa Barbara County Integrated Regional Water Management (IRWM) Plan 2019 Update**

On April 5, 2019, the final methodology for the preliminary ranking and recommendation of proposed projects for the Santa Barbara County IRWMP process was provided to the cooperating partners. Nine projects were received through the County's 2019 project selection process. The project selection process is carried out by a subcommittee consisting of five people selected by the cooperating partners. In order to eliminate bias, subcommittee member selection accounted for regional equity and total detachment from any submitted projects. The selection of the subcommittee members was agreed upon at the closure of the March 8, 2019 IRWMP meeting.

On April 16, 2019, the IRWM Participating Cooperating Partners met to review submitted projects and the subcommittee's preliminary scoring of the projects for round 1 funding. COMB submitted two projects: (1) the secured pipeline project; and (2) the water quality and sediment management study for potential funding. During the meeting discussion, it was noted that the secured pipeline project was submitted prior to the February/March rain events. As a result of the increased lake elevation, the estimated project implementation date was extended beyond the Round I funding date. It was concluded that, based on the revised implementation timing, the project would be brought back for Round II consideration.

The water quality and sediment management study was considered to be ineligible pursuant to a conversation between the IRWMP consultant and a representative from the Department of Water Resources (DWR) based on the fact that the draft Proposal Solicitation Package (PSP) requires that all projects must have an implementation component.

Five regional projects remain under consideration. Project applicants have the ability to appeal their preliminary score and submit any missing information by April 30th for further consideration by the subcommittee. Following the appeal process, the eligible projects will be presented at a public workshop for comment. A final PSP is expected to be released by the end of April which will outline the pre-application and final application process.

Administration

- **Contracts executed by the General Manager – 3rd Quarter Fiscal Year 2018-19**

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

Pursuant to the COMB Procurement Policy adopted by the Board, a quarterly report of all contracts executed by the General Manager for the period of January 1, 2019 through March 31, 2019 is presented for information. All contracts exceeding the authorized limit have been previously presented to and approved by the governing Board through respective Committees.

Table 1				
Contracts Executed by General Manager				
January 1, 2019 - March 31, 2019				
Vendor Name	Contract Description	Date Executed	Date Expires	Contract Amount
Prober Land Surveying	Survey of Quiota Creek Crossing 8 Site	01/08/2019	01/14/2019	\$2,340
Fugro USA Land	Materials testing - Quiota Creek Crossing 5	01/23/2019	02/28/2019	\$3,729
Fugro USA Land	Materials testing - Quiota Creek Crossing 9	01/23/2019	02/28/2019	\$3,718
Prober Land Surveying	Survey of Mission Creek at the South Coast Conduit Crossing	01/30/2019	02/28/2019	\$2,975
Prober Land Surveying	Survey of San Jose Creek at the South Coast Conduit Crossing	02/19/2019	04/30/2019	\$4,875

- **Fiscal Year 2019-20 Draft Operating Budget**

The Fiscal Year 2019-20 COMB Draft Operating Budget was presented to Member Agency staff for review during mid-April. Staff is incorporating comments received by the Districts. An Administrative Committee meeting will be conducted this week prior to the draft budget presentation at a Special Board meeting workshop proposed for early May.

Engineering / Operations Division

- **Infrastructure Improvement Plan (IIP) Progress Update**

The COMB IIP provides critical component detail of the Cachuma Project conveyance system to be improved, repaired or replaced to ensure the reliability of water service. The IIP balances resource demands with resource availability and provides the asset analysis necessary to determine project priority for budgetary decisions. The IIP guiding principal is to protect the dependent interest of the COMB Member Agencies by ensuring each asset maintains regulatory compliance, reliability, and safety. The intent of the IIP is to set forth a reasoned decision-making methodology that will protect the asset and avoid increased future costs.

Significant progress has been made in developing the COMB 2020-2024 IIP. The major tasks and milestones that have been completed thus far are highlighted below:

➤ ***A kickoff meeting was held on October 18, 2018 with all COMB Member Agencies represented***

The purpose of the kickoff meeting was to discuss the COMB 2020-2024 IIP development process, proposed schedule, and overarching goals. In addition, an overview of the Cachuma Project conveyance system from the North Portal Intake Tower to Carpinteria Reservoir was presented, including a description of all asset categories. Several suggestions were made by COMB Member Agency staff during the meeting, which have been or will be addressed during COMB IIP development.

➤ ***A schedule outlining critical path targets was created and accepted by all Member Agency staff***

The schedule spans several phases of work including 1) establish goals and conduct critical needs assessment, 2) identify projects and develop project descriptions, 3) develop ranking criteria and apply to identified projects, 4) draft COMB 2020-2024 IIP, and 5) COMB Committee/Board process. Every phase includes opportunities for COMB Member Agency review and comment. Several meetings have also been scheduled to ensure COMB Member Agency involvement in the development process.

➤ ***Draft goals were sent to COMB Member Agencies on October 29, 2018 for review; COMB received comments on draft goals and incorporated feedback***

The goals will guide all aspects of COMB IIP development, and have been written as follows, 1) carryout COMB mission of providing a reliable source of water to our Member Agencies, 2) identify infrastructure vulnerabilities and operational deficiencies (risk management), 3) provide for a systematic selection of critical projects, 4) maintain current level of service while allocating infrastructure improvement costs over time, 5) identify funding requirements for long term capital planning, 6) serve as a basis for annual budget development, 7) create a framework for ensuring reliable and sustainable operations, 8) serve as a planning document for the Board of Directors and the public.

➤ ***An asset inventory and draft critical needs assessment was created and sent to COMB Member Agencies on February 8, 2019 for review and comment; COMB received comments on the asset inventory and draft critical needs assessment and incorporated feedback***

The asset inventory involved cataloguing and characterizing major assets, including valves, meters, blowoffs, air vents, and other important structures. This required a complete examination of relevant engineering drawings and extensive field checks to verify the existence and attributes of all major assets. COMB operates and maintains these critical assets at the North Portal, Tecolote Tunnel, South Coast Conduit Reaches, Sheffield Tunnel, and Glen Anne, Lauro, Ortega, and Carpinteria Reservoir locations. A comprehensive inventory was assembled for COMB assets using the Gutteridge, Haskins & Davey (GHD) asset management spreadsheet available through the EPA website. The GHD spreadsheet allows for a hierarchy of assets, which can be characterized by asset class, original cost, replacement cost, effective life, probability of failure, and renewal strategy (abandon, maintain, repair, replace), among other inputs. It is useful for viewing assets and their current conditions in a single location, while identifying assets or categories of assets that will need near or long-term work.

The draft critical needs assessment identified Critical Needs Projects based on the asset inventory conducted by COMB, recommendations from U.S. Bureau of Reclamation inspections, and previously contracted inspections and reliability studies. A Critical Needs Project is defined as a project requiring near-term action to ensure the structural safety of an asset, to preclude the possibility of the operational failure of a facility, or to reduce safety risks to operating personnel or the public.

➤ ***An IIP development progress meeting was held on March 1, 2019 with all COMB Member Agencies represented***

The purpose of this IIP development progress meeting was to discuss and receive additional comments pertaining to the asset inventory and draft critical needs assessment. In addition, a preliminary list of Critical Needs Projects (with draft budget and schedule) and Ranked Projects were presented for discussion purposes. Ranked Projects include projects that are not considered to be a “critical” or “regulatory” but are still important to COMB operations. A ranking criteria will be applied to the Ranked Projects at a later date to establish project prioritization. Several suggestions were made by COMB Member Agency staff during the meeting, which have been or will be addressed during COMB IIP development.

➤ ***Draft IIP project descriptions have been developed and sent to COMB Member Agencies for review and comment prior to discussion at a General Manager’s meeting which took place on April 11, 2019***

The draft IIP project descriptions include information on project background, stated need, project summary, regulatory compliance considerations, tentative budget, and proposed schedule for all identified Critical Needs Projects and Ranked Projects. Each project is given a “source” identifier where it can be tracked back to the original U.S. Bureau of Reclamation inspection report or the Cachuma Project conveyance system location and row number from the COMB asset management spreadsheet which prompted the project being proposed. Key slope stabilization and channel protection projects have also been included and have resulted from COMB staff field observations.

Respectfully Submitted,

Janet Gingras
General Manager

CACHUMA OPERATION AND MAINTENANCE BOARD

MEMORANDUM

DATE: April 22, 2019
TO: Janet Gingras, General Manager
FROM: Joel Degner, Water Resources Engineer
RE: MONTHLY ENGINEERING REPORT

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

CLIMATE CONDITIONS

The Santa Barbara County year to date rainfall is 117 percent of normal (as of April 16, 2019). The inflow into Lake Cachuma will likely exceed 100,000 AF by the end of Water Year 2018-2019 with the reservoir capacity at 80 percent. United States Drought Monitor removed the drought conditions from Santa Barbara County in March 2019. However, the monitor does not include the long-term deficits in precipitation that occurred from 2012 to 2018 which impacted the water levels in the South Coast and Santa Ynez groundwater basin. Weak El Nino conditions are likely to continue through the Northern Hemisphere summer 2019 (~65% chance) and possibly fall (~50-55% chance) according to the National Weather Service Climate Prediction Center. The antecedent moisture index at Gibraltar Dam is 6.9 indicating moderate soil wetness conditions. Gibraltar Reservoir is at 100% capacity and continues to spill contributing inflow into Lake Cachuma.

LAKE CACHUMA CONVEYANCE FEASIBILITY STUDY

Makai Ocean Engineering completed the draft technical memorandums for the Lake Cachuma Conveyance Feasibility Study and is in the process of preparing the final report. Makai has evaluated the existing EPFP pipeline stored at the lake for suitability for a bottom-mounted application. The pipeline could potentially be made suitable by adding pipe stiffeners every 7 feet. However, the estimated cost of the stiffeners (\$482,000) is only slightly less than the cost of new unstiffened DR 17 pipe (\$560,000). The recommended pipe anchors would consist of two concrete halves which are connected with four threaded rods, nuts and washers. Makai recommends weighting the bottom mounted part of the pipeline at 5% of its air-filled buoyancy. A constant pull of 0.05 tons is sufficient for a straight-line deployment. Makai recommends limiting the slope of the trench leading to the intake tower to 6 degrees. Makai modeled and provided a conceptual design of the pump station connection pipeline. It was shown that a 250' long section of the flexible OD36 HDPE pipeline can be used to make this connection. Maximum operational loads were estimated and conceptual designs to balance these loads at the submerged pipe end flange and pump station connection flange were presented. The submerged pipe sees maximum loads of 850 lbs. These can be compensated by immobilizing the last two precast concrete weights with helix screw anchors. The higher loads are experienced at the pump station barge and are estimated to be 4300 lbs. The barge would require modification to contain an additional float section and pipe clamp to secure the pipeline the barge. The overall draft rough-order of magnitude cost for the pipeline component is estimated to be \$1.45 million of which \$572,000 are attributed to purchase the pipeline and \$407,000 to fusing the pipeline sticks into one length and attaching the precast pipe weights. The remaining \$471,000 covers purchase of anchors, installation of the pipeline (excavation, deployment, post-deployment work) and modifications to the pump station barge.

LAKE CACHUMA WATER QUALITY AND SEDIMENT MANAGEMENT PLAN

The technical review team met at the end of March to review the progress on the study, discuss the data collected and interview results, and determine the relevance of the lake issues. The lake issues were organized into three tiers based on importance. The top tier (Tier 1) issues include total organic carbon, sedimentation, algal blooms, and turbidity. Data gaps identified include nutrient sampling (especially phosphorous data) and

water quality data from the tributaries to Lake Cachuma. The technical review team will meet late May/early June to discuss the results of the issue characterization and trends assessment. These analyses will be utilized to develop the potential solutions and best management practices in Phase 2 which is planned for Fiscal Year 2019-2020.

INFRASTRUCTURE IMPROVEMENT PROJECT STATUS

Table 1 provides a summary of the FY 2018-2019 Infrastructure Improvement Projects. COMB staff met in April with Member Agency staff regarding the continued development of the updated Infrastructure Improvement Plan. COMB staff provided draft project descriptions for the identified critical need projects for technical review.

Table 2. Infrastructure Improvement Projects Status

Infrastructure Improvement Projects	Status / Phase	Complexity / Challenges	Estimated Completion Date
Infrastructure Improvement Projects			
Sycamore Canyon Slope Stabilization	Bids are due May 8th for the May board meeting review and approval.	Several components (permitting, potential for winter rains, and grant funding) resulted in a delay of the project to 2019.	September 2019
SCC Structure Rehabilitation (AVAR/BO)	A contract amendment was completed to continue engineering design for Schedule D and E in Montecito for next winter.	Work in Montecito requires a line valve to facilitate shutdowns.	Schedule A, B, C completed in January 2019. Schedule D and E planned for winter 2019-2020.
Lateral 3 Repair	Construction was completed in early December.	This project required a 7-day shutdown and welders to enter the SCC and travel ~1000 feet.	Completed in December 2018.
Rehabilitate San Antonio Creek Blow-off	Valves and piping were replaced in early December 2018. A minor amount of additional work is needed to install the floorstands and stem extensions.	The valves were replaced in 2018. Floorstands were not installed due to a delay in shipment in the stem extensions. Floorstands and stem extensions will be installed once conditions dry out for access.	Valves replaced in December 2018, with minor finish work completed in May 2019
SCC Line Valves for Shutdown	The isolation valve would be installed as part of the planned AVAR/BO work in the Montecito Area next winter. Engineering plans will be developed in spring based on previously installed in-line valves. However, the in-line valve installation will likely not require a bypass.	Additional line valves in the SCC could better facilitate planned maintenance activities.	Design by June 2019
SCC Structure Rehabilitation : Lower Reach Laterals	The engineering work assessing the condition and existing design of each lateral turnout has been initiated.	In order to facilitate shutdowns on the Lower Reach of the SCC, lateral valves may need replacement.	Plan/Design by June 2019
Special Projects			
Emergency Pumping Facility Project	Key components barge are currently being stored under contract. COMB has the option to continue to store these components as part of the EPFP contract. The pipeline to reach Site 1 was floating in the lake and relocated to the high-level lake shoreline in April.	With the increase in lake levels, the lake elevation is projected to remain above 685 until the Summer/Fall 2021.	TBD
Lake Cachuma Water Quality and Sediment Management Study	The 1st Technical Review meeting was conducted on March 29th to determine issue prioritization and discuss data gaps. The 2nd Technical Review is scheduled to occur in early May/June to review issues characterization and trend assessment.	Recent wildfires and subsequent storm events have resulted in decreased water quality and increased sedimentation into Lake Cachuma.	March 2020

CACHUMA OPERATION AND MAINTENANCE BOARD

MEMORANDUM

DATE: April 22, 2019
TO: Janet Gingras, General Manager
FROM: Dave Stewart, Operations Manager
RE: MONTHLY OPERATIONS DIVISION REPORT

Operations – Report Attached

MONTHLY OPERATIONS DIVISION REPORT

April 22, 2019

CACHUMA OPERATION
& MAINTENANCE BOARD
DAVE STEWART



Monthly Operations Division Report

Introduction

The Operations Division of the Cachuma Operation and Maintenance Board has the responsibility to operate, repair and maintain all Cachuma Project facilities from the Intake Tower at Lake Cachuma to the Carpentaria Reservoir. The Annual Work Plan sets forth all activities necessary to ensure system reliability. Consistent with the Plan, Operation and Maintenance staff performs routine maintenance on the distribution and storage system. Staff continues to improve the system, address deficiencies and identify items to be included in the Infrastructure Improvement Program of work.

Operations Division is responsible for:

- Adequately regulating and maintaining the diversion of water from Lake Cachuma to the South Coast via the Tecolote Tunnel as the primary water source for 5 communities.
- Operation and maintenance of the South Coast Conduit pipeline, which consist of 26.5 miles of pipeline with a combined 124 blow off and air vent structures, 43 turnout structures and 20 meters.
- Operation and Maintenance of four regulating reservoirs.
- Prompt response to Underground Service Alerts (USA's) within the USBR right-of-way.

Operations staff regularly performs the following duties:

- Weekly off site inspections of major facilities
- Structure maintenance on all air vent, blow off and turnouts
- Dam inspection and instrumentation reports (all reservoirs)
- Annual exercising of control valves
- Quarterly meter calibrations
- Weekly safety meetings
- Weekly rodent bait (all reservoirs)
- Weekly toe drain and piezometer reads at Ortega (L23)
- USA Dig Alerts – Respond as necessary to alerts (72 each In March)
- Pesticide report to County of Santa Barbara
- Operational tests of generators at the North Portal and at Lauro Yard
- Inspection of fire extinguishers
- Read anodes and rectifier data
- Water samples taken at Lake Cachuma
- Clean up, inspection and tool inventory of all vehicles
- Clean up and organize service yard and all buildings

“Our mission is to provide a reliable source of water to our member agencies in an efficient and cost effective manner for the betterment of our community.”

Lake Cachuma Operations

The total flow from Lake Cachuma into the Tecolote Tunnel for March was 344.8 acre-feet, for an average daily flow of 11.12 acre-feet. Lake elevation was 725.79 feet at the beginning of March and 738.48 feet at the end of March. Storage change increased 31,201 acre-feet. CCWA wheeled 0.0 acre-feet of water to Cachuma Project facilities.

South Coast Conduit Operations

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

- Staff has been on site monitoring several ongoing projects throughout the area, working closely with the construction and engineering contractors to ensure that:
 - Pipeline easements and the right-of-way remain accessible to Operations staff for possible emergencies and ongoing facility maintenance.
 - All projects are following the COMB and USBR approved plans.
 - No damage occurs to the SCC during the construction process.
- Staff relocated the Santa Cruz inlet log boom to the lake Cachuma marina at the county's request.
- Staff painted the blow off structures at the Davidson property in Toro canyon and San Ysidro yard to match sand stone surroundings.
- Staff repaired the Toro canyon lateral propeller meter in Montecito.
- At the Montecito Water Departments request, Staff opened and closed lateral @ Sta 555+80. Last opened in 1998.
- Staff Continued weed abatement at Lauro & Ortega Reservoirs
- Removed fallen tree at Ortega Reservoir

Pictures



Lauro Reservoir Weed Abatement Progress





Painted Structure

Tree Removal



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CACHUMA OPERATION AND MAINTENANCE BOARD
BOARD MEMORANDUM

DATE: April 22, 2019
TO: Janet Gingras, General Manager
FROM: Tim Robinson, Fisheries Division Manager
RE: MONTHLY FISHERIES DIVISION REPORT

HIGHLIGHTS:

- USBR continues to deliver approximately 2.9 cfs of Lake Cachuma water to Hilton Creek through the Hilton Creek Emergency Backup System (HCEBS) which is sustaining the *O. mykiss* population in the creek.
- The Hilton Creek *O. mykiss* population has successfully spawned in several locations.
- USBR continues to work on the Hilton Creek Watering System (HCWS) with no specific date determined for repair of the system.

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 COMB Fisheries Division (FD) staff 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 COMB-FD staff since the last COMB Board Fisheries Division Report and has been broken out by categories.

LSYR Steelhead Monitoring Elements:

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

Migrant Trapping: The 2019 Trapping Plan was provided to Reclamation in January who then submitted it to NMFS. This monitoring effort normally begins in January and continues through May depending on streamflow rates. This year the Hilton Creek and Salsipuedes Creek traps were installed on 1/23/19. The LSYR Mainstem Trap was installed in association with the Passage Supplementation Program on 2/7/19 and removed on 3/27/19 due to low flow. Traps are removed during high flow events for safety of the staff, fishery and equipment, or if flows are too low to enable migration. The Santa Ynez River Lagoon opened on 1/18/19 and continues to be wide open for river-ocean connectivity. Results of the trapping program are presented in the Annual Monitoring Report.

Redd Surveys: Redd surveys are conducted every two weeks from mid-January through May. Surveys are conducted within the LSYR mainstem in the Highway 154, Refugio, and

Alisal reaches where access is permitted, and certain sections of Hilton, Quiota, and Salsipuedes/El Jaro creeks. Spawning activity has only been observed so far in Hilton Creek in multiple locations. Many young of the year *O. mykiss* have been observed throughout the wetted section of Hilton Creek. The number of redds is reported in the Annual Monitoring Plan.

Passage Supplementation: USBR initiated the Passage Supplementation Program in February once the watershed met all established criteria. The implementation guidelines are presented in the 2000 BiOp and the 2004 AMC memo. Supplemented stormflow events were conducted on 2/6/19 (9 days), 2/15/19 (16 days), and 3/4/19 (18 days). Each supplementation event used approximately 705 af, 1,104 af, and 1,497 af, respectively, for a total of 3,307 af leaving a 107 af over allocation of the FPSA. USBR has determined that Hilton Creek releases during Passage Supplementation events are debited to the FPSA. So far, no migrating *O. mykiss* have been observed at the LSYR Mainstem Trap during all events.

Hilton Creek Stormflow Condition: Winter storms continue to provide upper basin flow that has flushed down sediment from the Whitter Fire burn scar. Sediment load has been reducing with time although the majority of pool habitats continue to be filled with sediment.

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

Tributary Project Updates:

Quiota Creek Crossing 8: Funding for this project has been secured through a CDFW-FRGP grant that was submitted on 3/29/18 for \$1,010,700 with a \$50,000 construction match from COMB as approved by the COMB Board during the 2/26/18 Board meeting. COMB was awarded this grant on 12/5/18 and the Board accepted the grant by resolution on 1/28/19. Staff is now preparing permit applications and our design team is working on final designs. Project construction is tentatively scheduled for this fall pending final design approval and obtaining all needed permits.

Hilton Creek Watering System (HCWS) and Emergency Backup System (HCWBS) Repairs:

HCWS and HCEBS: The HCWS and HCEBS are owned, operated, and maintained by USBR. The HCEBS was completed at the end of January 2016. USBR technical staff worked on their system three times in March when they found several issues with the HCWS that need repair and have left the system inoperable. USBR staff has visited the HCWS a couple of times in April to determine parts needed and repairs actions. The timeframe on those identified repairs has yet to be determined but it will not be available for use anytime soon. Currently USBR is delivering water to the creek through the HCEBS to the Upper Release Point by gravity flow.

Surcharge Water Accounting:

The following table summarizes the amount of surcharge water used to date from each of the three accounts plus project yield at the end of last month (Table 1). All numbers are from USBR's Daily Operations Report. The start time for the use of the Surcharge Water Accounts and Project Yield was 5/27/11, or the day following the last day of full surcharge and end of the last spill event. As of May 2012, all of the fish rearing accounts have been used and USBR is now using Project Yield to

meet BiOp target flows. Water Right (WR 89-18) release durations since 2013 are noted as follows: 7/15/13 - 12/2/13, 8/18/14 - 11/11/14, 8/3/15 - 9/26/15, 7/12/16 - 8/29/16, 8/21/17 - 11/8/17, and 8/6/18 – 9/12/18. During these releases, no fish rearing releases are debited as WR 89-18 releases are used conjunctively with fish flows under the Cachuma Project Settlement Agreement. The Adaptive Management Committee (AMC) called for two releases from the Adaptive Management Account (AMA), 35 acre-feet in October 2012 and 114 acre-feet in June 2013. The remaining amount in the AMA is 351 acre-feet. All of the Fish Passage Supplementation Account (FPSA) has been used as explained above. Determination of critical drought and the associated accounting and possible usage of the AMA and FPSA during that period have not been finalized and approved (or if those accounts are now replenished from WY2017's runoff) by NMFS and USBR. Therefore they are not reflected in Table 1. Passage Supplementation was initiated in February and ended in March hence debited waters are reflected in the table.

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

Accounts*	Allocation	Amount Used**	Amount Remaining
Units:	(acre-feet)	(acre-feet)	(acre-feet)
Fish Passage Supplementation	3,200	3,307	-107
Adaptive Management	500	149	351
Fish Rearing***	5,484	5,484	0
Project Yield		15,592	
Total:	9,184	24,532	244
* Originally was 9,200 af, 8,942 af in 2008 and 9,184 af in 2013.			
** Values as of 3/31/19.			
*** This water is for meeting required target flows. This is not an official account and is what remains after subtracting the other two accounts.			

Reporting / Outreach / Training:

Reporting: Staff continues to work on the Annual Monitoring Reports (the USBR report) and the Annual Monitoring Summaries (the COMB report) as well as any other BiOp compliance measure as requested by USBR.

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. The COMB Fisheries Division manager gave a talk and presented a poster at the 26th annual Society of Ecological Restoration (SERCAL) Conference in Santa Barbara. Both presentations were well received..

Consultant Activity Summary:

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

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CACHUMA OPERATION & MAINTENANCE BOARD

BOARD MEMORANDUM

Date:	April 22, 2019
Submitted by:	Tim Robinson and Scott Volan
Approved by:	Janet Gingras

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

SUMMARY:

Maintenance

This memorandum on the Lake Cachuma Oak Tree Restoration Program reflects maintenance completed since July, 2018 to the present (7/1/18 – 4/22/19, Table 1). Labor and expenses for the entire fiscal year (July 2018 - June 2019) as well as water usage will be tracked separately and reported as necessary as recommended by the Lake Cachuma Oak Tree Committee. COMB staff continues to rely on the Fisheries Division seasonal employees to conduct the majority of oak tree work in the field. The 2015 Lakeshore Inventory was completed and reviewed by the Lake Cachuma Oak Tree Committee on 2/25/16, which set the mitigation number for the program. The 2017 Annual Inventory and Fiscal Year 2017-2018 Financial Report has been reviewed and approved by the Lake Cachuma Oak Tree Committee on 8/1/18 with suggested recommendations for the upcoming fiscal year.

Table 1: Cachuma Oak Tree Program completed tasks since July, 2018.

	July 2018	Aug 2018	Sept 2018	Oct 2018	Nov 2018	Dec 2018 ²	Jan 2019 ²	Feb 2019 ²	Mar 2019 ³	April 2019
Year 10 Oaks (2018-2019)						Planted	Planted			Irrigated Weeded
Year 9 Oaks (2016-2017)	Irrigated Weeded		Irrigated Weeded	Irrigated Weeded						Weeded Deer Cages
Year 8 Oaks (2015-2016)	Irrigated Weeded	Irrigated Weeded	Irrigated Weeded	Irrigated Weeded	Irrigated Weeded					Weeded Deer Cages
			Deer Cages		Mulched					
Year 7 Oaks (2014-2015)	Irrigated Weeded	Irrigated Weeded	Irrigated Weeded	Irrigated Weeded	Irrigated Weeded					
		Deer Cages			Mulched					
Year 6 Oaks (2010-2011)	Irrigated ¹									
Year 5 Oaks (2009-2010)	Irrigated ¹									
Year 4 Oaks (2008-2009)	Irrigated ¹			Deer Cages	Deer Cages					
Year 3 Oaks (2007-2008)	Irrigated ¹			Deer Cages	Deer Cages					
Year 2 Oaks (2006-2007)	Irrigated ¹									
Year 1 Oaks (2005-2006)	Irrigated ¹									

¹ Stressed trees irrigated.
² Oak tree inventory (Year 1-9).
³ Oak tree inventory (Year 10).

With winter rains winding down, Fisheries Division personnel have started irrigating the newest age class (Year 10) of oak trees located at the Santa Barbara County Park. Once the Year 10 trees have been watered, crews will focus on the Year 9 and Year 8 trees next. Crews are hand weeding inside of the cages during irrigation.

Between routine checks of migrant fish traps (expected to continue through mid-May), crews have re-pounded in loose wooden stakes and weeded at Mohawk (Year 9) (Exhibit 1), removed cages from older Year 3 and Year 4 trees near the dam, and removed grow tubes and caged trees at the Stability Berm near the dam as appropriate (Year 8).

RECOMMENDATION:

For Board information only.

LIST OF EXHIBITS:

Current Oak Tree Program photos



Exhibit 1: Lake Cachuma Oak Tree Restoration Program trees at Mohawk flat showing spring weed growth (a) before and (b) after weeding.

CACHUMA OPERATION AND MAINTENANCE BOARD

METERED USE REPORT FOR MARCH 2019

LATERAL/ STATION	NAME	ACRE FEET METERED	LATERAL/ STATION	NAME	ACRE FEET METERED
CARPINTERIA WATER DISTRICT			GOLETA WATER DISTRICT		
Boundary Meter - East		159.17	18+62	G. WEST	6.23
Boundary Meter - West		(0.05)	78+00	Corona Del Mar FILTER Plant	278.02
			122+20	STOW RANCH	0.00
				Raytheon (SWP) (Warren Act Contract)	0.00
				Morehart (SWP) (Warren Act Contract)	0.00
				SWP CREDIT (Warren Act Contract)	(278.02)
			TOTAL		6.23
			MONTECITO WATER DISTRICT		
			260+79	BARKER PASS	27.62
			386+65	MWD YARD	8.85
			487+07	VALLEY CLUB	0.00
			499+65	E. VALLEY-ROMERO PUMP	1.64
			510+95	MWD PUMP (SWD)	2.69
			510+95	ORTEGA CONTROL	0.65
			526+43	ASEGRA RD	1.20
			555+80	CO. YARD	0.00
			583+00	LAMBERT RD	0.00
			599+27	TORO CANYON	0.00
				SWP CREDIT (Warren Act Contract)	(42.66)
			TOTAL		0.00
			CITY OF SANTA BARBARA		
			CATER	INFLOW	609.94
			Gibraltar	PENSTOCK	(389.89)
			CATER	SO. FLOW	(255.68)
			Sheffield	SHEF.LIFT	41.14
				SWP (Warren Act)	(3.14)
				La Cumbre Mutual SWP (Warren Act)	(2.36)
			TOTAL		0.00
			SANTA YNEZ RIVER WATER CONSERVATION DISTRICT, ID#1		
			COUNTY PARK, ETC		0.92
			TOTAL		0.92
			BREAKDOWN OF DELIVERIES BY TYPE:		
			STATE WATER DELIVERED TO LAKE		0.00
			STATE WATER TO SOUTH COAST (including from storage)		(485.30)
			METERED DIVERSION		7.15
SWP CREDIT (Warren Act Contract) (159.12) TOTAL (0.00)					
Note: Meter reads were taken on: 4/1/2019					

WATER YEAR 18-19 CACHUMA PROJECT ALLOCATION

**CACHUMA OPERATION AND MAINTENANCE BOARD
WATER PRODUCTION AND WATER USE REPORT
FOR THE MONTH OF MARCH 2019 AND THE WATER YEAR TO DATE (WYTD) ⁽¹⁾**

(All in rounded Acre Feet)

CACHUMA PROJECT		
WATER PRODUCTION:	MONTH	WYTD
Cachuma Lake (Tec. Diversion)	356.4	4,906.2
Tecolote Tunnel Infiltration	127.7	484.8
Cachuma Lake (County Park)	0.9	8.9
Subtotal - Water Production	485.1	5,399.9
WATER DELIVERIES:		
State Water Diversion	485.3	4,346.0
Cachuma Diversion	7.2	1,108.0
Storage gain/(loss) ⁽²⁾	(8.7)	(37.7)
Subtotal - Water Deliveries	483.7	5,416.3
Total Water Production	485.1	5,399.9
Total Water Deliveries	483.7	5,416.3
Difference = Apparent Water Loss ⁽³⁾	1.3	(16.4)
% Apparent Water Loss	0.28%	-0.30%

SCC APPARENT WATER LOSS ALLOCATION (AWL) ⁽⁴⁾

	GWD	SB CITY	MWD	CVWD	TOTAL
CURRENT MONTH CHARGE / (ADJUSTMENT) ⁽⁴⁾					
M&I	0.0	0.0	0.0	0.0	0.0
Agriculture	0.0	0.0	0.0	0.0	0.0
Subtotal Cachuma Project	0.0	0.0	0.0	0.0	0.0
(+) State Water Project	0.0	0.0	0.0	0.0	0.0
Total Current Month	0.0	0.0	0.0	0.0	0.0
WATER YEAR-TO-DATE CHARGE / (ADJUSTMENT)					
M&I	(0.2)	(2.1)	0.0	0.0	(2.3)
Agriculture	(0.0)	0.0	0.0	0.0	(0.0)
Subtotal Cachuma Project	(0.3)	(2.1)	0.0	0.0	(2.3)
(+) State Water Project	0.7	3.3	1.3	(0.8)	4.5
Total AWL Charged (WYTD) ⁽⁴⁾	0.4	1.2	1.3	(0.8)	2.1
Total AWL Not Charged (WYTD) ⁽⁴⁾					(18.6)
Total AWL Incurred (WYTD)					(16.4)

CACHUMA PROJECT WATER CHARGE

	GWD	SB CITY	MWD	CVWD	SYRID #1	TOTAL
CURRENT MONTH						
Water Usage						
M&I	0.0	0.0	0.0	0.0	0.9	0.9
Agricultural	6.2	0.0	0.0	0.0	N/A	6.2
Subtotal Project Water Use	6.2	0.0	0.0	0.0	0.9	7.2
(+) Apparent Water Loss	0.0	0.0	0.0	0.0	N/A	0.0
(+) Evaporative Loss ⁽⁵⁾	14.8	34.1	9.2	2.4	0.2	60.6
Total Project Water Charge	21.0	34.1	9.2	2.4	1.1	67.8
WATER YEAR-TO-DATE						
Water Usage						
M&I	570.4	330.7	0.0	0.0	8.9	910.0
Agricultural	198.0	0.0	0.0	0.0	N/A	198.0
Subtotal Project Water Use	768.4	330.7	0.0	0.0	8.9	1,108.0
(+) Apparent Water Loss	(0.3)	(2.1)	0.0	0.0	N/A	(2.3)
(+) Evaporative Loss ⁽⁵⁾	122.8	266.3	70.4	45.3	1.4	506.1
Total Project Water Charge (*)	890.9	594.9	70.4	45.3	10.3	1,611.7

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

WATER YEAR 18-19 CACHUMA PROJECT ALLOCATION

**CACHUMA OPERATION AND MAINTENANCE BOARD
WATER PRODUCTION AND WATER USE REPORT
FOR THE MONTH OF MARCH 2019 AND THE WATER YEAR TO DATE (WYTD) ⁽¹⁾**

(All in rounded Acre Feet)

CACHUMA PROJECT WATER BALANCE

	GWD	SB CITY	MWD	CVWD	SYRID #1	TOTAL
Project Water Carryover - 10/1/2018	3,771.3	7,264.2	1,864.1	1,305.2	40.4	14,245.2
Transfers/Adjustment	0.0	0.0	0.0	0.0	0.0	0.0
(-) Project Water Charge (WYTD)	890.9	594.9	70.4	45.3	10.3	1,611.7
Balance Carryover Water	2,880.4	6,669.3	1,793.7	1,259.9	30.1	12,633.5
Current Year Allocation ⁽⁶⁾	9,322.0	8,277.0	2,651.0	2,813.0	2,651.0	25,714.0
(-) Balance of Project Water Charge (WYTD)	0.0	0.0	0.0	0.0	0.0	0.0
Net Allocation Available Before Adjustments	9,322.0	8,277.0	2,651.0	2,813.0	2,651.0	25,714.0
<u>Adjustments to Net Allocation (WYTD)</u>						
Carryover Balances Spilled	0.0	0.0	0.0	0.0	0.0	0.0
Surplus	0.0	0.0	0.0	0.0	0.0	0.0
State Water Exchange ⁽⁷⁾	0.0	0.0	0.0	0.0	0.0	0.0
Transfers/Adjustment	0.0	0.0	0.0	0.0	0.0	0.0
Balance Current Year Allocation	9,322.0	8,277.0	2,651.0	2,813.0	2,651.0	25,714.0
Total Cachuma Project Water Available	12,202.4	14,946.3	4,444.7	4,072.9	2,681.1	38,347.5

Footnotes

- (1) Water Year = October 1 through September 30; WYTD = Water Year to Date
- (2) Includes Lauro and Ortega Reservoirs only.
- (3) Negative Apparent Water Loss in February is due, in part, to the added storage from rainfall and inflow to Lauro Reservoir.
- (4) Based on correspondence from Michael Jackson, dated 09/15/17, which revised the approach to the assessment for unaccounted-for water loss based on lake conditions
- (5) Per USBR, evaporation is applied to Cachuma Carryover and SWP water through standard contract formula effective April 1, 2017.
- (6) Per USBR, 20% initial allocation to Member Agencies, effective 10/1/18. In March 2019, USBR increased the allocation to 100% (25,714 acre feet) available water supply for the remaining contract year which ends on September 30, 2019.
- (7) The SWP Exchange amount for March 2019 was zero.
- (8) Memo only - State Water Deliveries to Lake Cachuma for March 2019 was zero.

CACHUMA OPERATION AND MAINTENANCE BOARD
WATER STORAGE REPORT

MONTH: **MARCH 2019**

GLEN ANNIE RESERVOIR ⁽¹⁾

Capacity at 385' elevation:	518	AF
Capacity at sill of intake at 334' elevation:	21	AF
Stage of Reservoir Elevation	335.00	Feet
Water in Storage	26.79	AF

LAURO RESERVOIR

Capacity at 549' elevation:	503	AF
Capacity at top of intake screen, 520' elevation:	106.05	AF
Stage of Reservoir Elevation	541.80	Feet
Water in Storage	371.65	AF

ORTEGA RESERVOIR

Capacity at 460' elevation:	65	AF
Capacity at outlet at elevation 440':	0	AF
Stage of Reservoir Elevation	446.70	Feet
Water in Storage	18.58	AF

CARPINTERIA RESERVOIR

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

TOTAL STORAGE IN RESERVOIRS ⁽¹⁾

Change in Storage	415.92	AF
	(9.64)	AF

CACHUMA RESERVOIR

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

Stage of Reservoir Elevation	738.61	Feet
Water in Storage	152,091	AF
Surface Area	2,611	
Evaporation	596.9	AF
Inflow	33,672.1	AF
Downstream Release WR8918	0.0	AF
Fish Release (Hilton Creek)	215.3	AF
Outlet	1532.2	AF
Spill/Seismic Release	0	AF
State Water Project Water	0	AF
Change in Storage	31,539	AF
Tecolote Diversion	356.4	AF

Rainfall:	Month:	3.06	Season:	22.10	Percent of Normal:	123%
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(1) The Glen Annie Reservoir is currently offline and is excluded from the Total Storage in Reservoirs amount.

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

Contract Year: 10/1/18 to: 9/30/19

Contract Entity: **Goleta Water District**
 Last updated by C.O.M.B. 03/31/19

Month	CARRYOVER WATER		CURRENT YEAR ALLOCATION										
	Carryover Balance Prior Yr	Approved Allocation Curr Yr	TOTAL WATER USED			WATER USE CHARGED			WATER USE CHARGED				
			Acre-feet			Allocation			Allocation				
			M & I	Agr	Total	Evap	Used	Total	M & I	Agr	M & I	Agr	Total
Oct	3,771.3	1,864.0	276.5	78.0	354.5	44.7	354.5	399.2	311.4	87.8	0.0	0.0	0.0
Nov			293.6	87.7	381.4	29.7	381.4	411.1	316.5	94.5	0.0	0.0	0.0
Dec			0.0	12.4	12.4	13.6	12.4	26.0	0.0	26.0	0.0	0.0	0.0
Jan			0.0	9.8	9.8	11.7	9.8	21.5	0.0	21.5	0.0	0.0	0.0
Feb			0.0	3.8	3.8	8.2	3.8	12.1	0.0	12.1	0.0	0.0	0.0
Mar		7,458.0	-	6.2	6.2	14.8	6.2	21.0	0.0	21.0	0.0	0.0	0.0
Apr			-	-	-	-	-	-	-	-	-	-	-
May			-	-	-	-	-	-	-	-	-	-	-
Jun			-	-	-	-	-	-	-	-	-	-	-
Jul			-	-	-	-	-	-	-	-	-	-	-
Aug			-	-	-	-	-	-	-	-	-	-	-
Sep			-	-	-	-	-	-	-	-	-	-	-
Total	3,771.3	9,322.0	570.2	198.0	768.1	122.8	768.1	890.9	627.9	263.0	0.0	0.0	0.0

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

Month	SCHEDULE AND REVISIONS			SCHEDULE AND REVISIONS		
	Total	Allocation		Allocation		Total
		M & I	Agr	M & I	Agr	
Oct	3,771.3	2,518.4	1,252.9	1,254.0	610.0	1,864.0
Nov	-	-	-	-	-	-
Dec	-	-	-	-	-	-
Jan	-	-	-	-	-	-
Feb	-	-	-	-	-	-
Mar	7,458.0	5,017.3	2,440.7	-	-	7,458.0
Apr	-	-	-	-	-	-
May	-	-	-	-	-	-
Jun	-	-	-	-	-	-
Jul	-	-	-	-	-	-
Aug	-	-	-	-	-	-
Sep	-	-	-	-	-	-

Month	BALANCE - CARRYOVER WATER			BALANCE - CURR YR ALLOC		
	Total	Allocation		Allocation		Total
		M & I	Agr	M & I	Agr	
Oct	3,372.1	2,207.0	1,165.1	1,254.0	610.0	1,864.0
Nov	2,961.0	1,890.5	1,070.5	1,254.0	610.0	1,864.0
Dec	2,935.0	1,890.5	1,044.5	1,254.0	610.0	1,864.0
Jan	2,913.4	1,890.5	1,023.0	1,254.0	610.0	1,864.0
Feb	2,901.3	1,890.5	1,010.9	1,254.0	610.0	1,864.0
Mar	2,880.4	1,890.5	989.9	6,271.3	3,050.7	9,322.0
Apr	-	-	-	-	-	-
May	-	-	-	-	-	-
Jun	-	-	-	-	-	-
Jul	-	-	-	-	-	-
Aug	-	-	-	-	-	-
Sep	-	-	-	-	-	-

TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) 12,202.4

SUMMARY OF WATER USED
CACHUMA PROJECT - CONTRACT #I75R-1802

Contract Year: 10/1/18 to: 9/30/19

Contract Entity: **City of Santa Barbara**
 Last updated by C.O.M.B. 03/31/19

Month	Carryover Balance		CARRYOVER WATER									CURRENT YEAR ALLOCATION		
	Prior Yr	Curr Yr	TOTAL WATER USED			WATER USE CHARGED						WATER USE CHARGED		
			Acre-feet			Evap			Used			Allocation		
			M & I	Agr	Total	M & I	----	Total	M & I	----	M & I	----	Total	
Oct	7,264.2	1,655.5	93.3	0.0	93.3	89.8	93.3	183.1	183.1	0.0	0.0	0.0	0.0	
Nov			235.3	0.0	235.3	65.1	235.3	300.4	300.4	0.0	0.0	0.0	0.0	
Dec			0.0	0.0	0.0	31.2	0.0	31.2	31.2	0.0	0.0	0.0	0.0	
Jan			0.0	0.0	0.0	27.0	0.0	27.0	27.0	0.0	0.0	0.0	0.0	
Feb			0.0	0.0	0.0	19.0	0.0	19.0	19.0	0.0	0.0	0.0	0.0	
Mar		6,621.5	0.0	0.0	0.0	34.1	0.0	34.1	34.1	0.0	0.0	0.0	0.0	
Apr			-	-	-	-	-	-	-	-	-	-	-	
May			-	-	-	-	-	-	-	-	-	-	-	
Jun			-	-	-	-	-	-	-	-	-	-	-	
Jul			-	-	-	-	-	-	-	-	-	-	-	
Aug			-	-	-	-	-	-	-	-	-	-	-	
Sep			-	-	-	-	-	-	-	-	-	-	-	
Total	7,264.2	8,277.0	328.6	-	328.6	266.3	328.6	594.9	594.9	-	-	-	-	

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

Month	SCHEDULE AND REVISIONS				Month	
	Total	Allocation		Allocation		
		M & I	----	M & I		----
Begin Bal	7,264.2	7,264.2	-	1,655.5	1,655.5	
Mid-Year Allocation				6,621.5	6,621.5	
Oct					-	
Nov					-	
Dec					-	
Jan					-	
Feb					-	
Mar					-	
Apr					-	
May					-	
Jun					-	
Jul					-	
Aug					-	
Sep					-	

Month	BALANCE - CARRYOVER WATER				Month	
	Total	Allocation		Allocation		
		M & I	----	M & I		----
Oct	7,081.1	7,081.1	-	1,655.5	1,655.5	
Nov	6,780.7	6,780.7	-	1,655.5	1,655.5	
Dec	6,749.5	6,749.5	-	1,655.5	1,655.5	
Jan	6,722.5	6,722.5	-	1,655.5	1,655.5	
Feb	6,703.4	6,703.4	-	1,655.5	1,655.5	
Mar	6,669.3	6,669.3	-	8,277.0	8,277.0	
Apr					-	
May					-	
Jun					-	
Jul					-	
Aug					-	
Sep					-	

TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) 14,946.3

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

Contract Year: 10/1/18 to: 9/30/19

Contract Entity: **Carpinteria Valley Water District**
 Last updated by C.O.M.B. 03/31/19

Month	Carryover Balance Prior Yr	Approved Allocation Curr Yr
Oct	1,305.2	563.0
Nov		
Dec		
Jan		
Feb		
Mar		2,250.0
Apr		
May		
Jun		
Jul		
Aug		
Sep		
Total	1,305.2	2,813.0

TOTAL WATER CHARGED			WATER USE CHARGED			WATER USE CHARGED		
Acre-feet			Allocation			Allocation		
M & I	Agr	Total	Evap	Used	Total	M & I	Agr	Total
0.0	0.0	0.0	16.2	0.0	16.2	7.4	8.8	0.0
0.0	0.0	0.0	12.0	0.0	12.0	5.5	6.5	0.0
0.0	0.0	0.0	5.9	0.0	5.9	2.7	3.2	0.0
0.0	0.0	0.0	5.1	0.0	5.1	2.3	2.8	0.0
0.0	0.0	0.0	3.6	0.0	3.6	1.6	1.9	0.0
0.0	0.0	0.0	2.4	0.0	2.4	1.1	1.3	0.0
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	45.3	-	45.3	20.7	24.5	-

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

Month	SCHEDULE AND REVISIONS			SCHEDULE AND REVISIONS		
	Total	Allocation		Allocation		Total
		M & I	Agr	M & I	Agr	
Begin Bal	1,305.2	597.3	707.9	258.5	304.5	563.0
Mid-Year Allocation				1,033.1	1,216.9	2,250.0
Oct						-
Nov						-
Dec						-
Jan						-
Feb						-
Mar						-
Apr						-
May						-
Jun						-
Jul						-
Aug						-
Sep						-

Month	BALANCE - CARRYOVER WATER			BALANCE - CURR YR ALLOC		
	Total	Allocation		Allocation		Total
		M & I	Agr	M & I	Agr	
Oct	1,289.0	589.9	699.1	258.5	304.5	563.0
Nov	1,276.9	584.4	692.6	258.5	304.5	563.0
Dec	1,271.0	581.7	689.4	258.5	304.5	563.0
Jan	1,265.9	579.3	686.6	258.5	304.5	563.0
Feb	1,262.4	577.7	684.7	258.5	304.5	563.0
Mar	1,259.9	576.6	683.4	1,291.6	1,521.4	2,813.0
Apr						
May						
Jun						
Jul						
Aug						
Sep						

TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) **4,072.9**

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

Contract Year: 10/1/18 to: 9/30/19

Contract Entity: **Montecito Water District**
 Last updated by C.O.M.B. 03/31/19

Month	Carryover Balance Prior Yr	Approved Allocation Curr Yr
Oct	1,864.1	530.0
Nov		
Dec		
Jan		
Feb		
Mar		2,121.0
Apr		
May		
Jun		
Jul		
Aug		
Sep		
Total	1,864.1	2,651.0

Month	TOTAL WATER USED			WATER USE CHARGED			WATER USE CHARGED				
	Acre-feet			Evap	Used	Total	Allocation		Allocation		Total
	M & I	Agr	Total				M & I	Agr	M & I	Agr	
Oct	0.0	0.0	0.0	23.2	0.0	23.20	18.3	4.9	0.0	0.0	0.0
Nov	0.0	0.0	0.0	17.2	0.0	17.2	13.6	3.6	0.0	0.0	0.0
Dec	0.0	0.0	0.0	8.4	0.0	8.4	6.6	1.8	0.0	0.0	0.0
Jan	0.0	0.0	0.0	7.3	0.0	7.3	5.7	1.5	0.0	0.0	0.0
Feb	0.0	0.0	0.0	5.1	0.0	5.1	4.0	1.1	0.0	0.0	0.0
Mar	0.0	0.0	0.0	9.2	0.0	9.2	7.3	1.9	0.0	0.0	0.0
Apr	-	-	-	-	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-	-	-	-	-
Jun	-	-	-	-	-	-	-	-	-	-	-
Jul	-	-	-	-	-	-	-	-	-	-	-
Aug	-	-	-	-	-	-	-	-	-	-	-
Sep	-	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	70.4	-	70.4	55.6	14.8	-	-	-

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

Month
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Month	SCHEDULE AND REVISIONS			SCHEDULE AND REVISIONS		
	Total	Allocation		Allocation		Total
		M & I	Agr	M & I	Agr	
Begin Bal	1,864.1	1,473.0	391.1	493.0	37.0	530.0
Oct	-	-	-	-	-	-
Nov	-	-	-	-	-	-
Dec	-	-	-	-	-	-
Jan	-	-	-	-	-	-
Feb	-	-	-	-	-	-
Mar	-	-	-	1,972.9	148.1	2,121.0
Apr	-	-	-	-	-	-
May	-	-	-	-	-	-
Jun	-	-	-	-	-	-
Jul	-	-	-	-	-	-
Aug	-	-	-	-	-	-
Sep	-	-	-	-	-	-

Month
 Oct
 Nov
 Dec
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 Mar
 Apr
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 Jul
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 Sep

Month	BALANCE - CARRYOVER WATER			BALANCE - CURR YR ALLOC		
	Total	Allocation		Allocation		Total
		M & I	Agr	M & I	Agr	
Oct	1,840.9	1,454.7	386.2	493.0	37.0	530.0
Nov	1,823.7	1,441.1	382.6	493.0	37.0	530.0
Dec	1,815.3	1,434.4	380.9	493.0	37.0	530.0
Jan	1,808.0	1,428.7	379.3	493.0	37.0	530.0
Feb	1,802.9	1,424.7	378.3	493.0	37.0	530.0
Mar	1,793.7	1,417.4	376.3	2,465.9	185.1	2,651.0
Apr	-	-	-	-	-	-
May	-	-	-	-	-	-
Jun	-	-	-	-	-	-
Jul	-	-	-	-	-	-
Aug	-	-	-	-	-	-
Sep	-	-	-	-	-	-

TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) **4,444.7**

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

Contract Year: 10/1/18 to: 9/30/19

Contract Entity: **Santa Ynez River Water Conservation District, ID#1**
 Last updated by **C.O.M.B. 03/31/19**

Month	Carryover Balance Prior Yr	Approved Allocation Curr Yr
Oct	40.4	530.0
Nov		
Dec		
Jan		
Feb		
Mar		2,121.0
Apr		
May		
Jun		
Jul		
Aug		
Sep		
Total	40.4	2,651.0

TOTAL WATER USED			WATER USE CHARGED			WATER USE CHARGED				
M & I	Agr	Total	Evap	Used	Total	Allocation		Allocation		Total
						M & I	Agr	M & I	Agr	
2.3	0.0	2.3	0.5	2.3	2.8	2.8	0.0	0.0	0.0	0.0
2.0	0.0	2.0	0.3	2.0	2.3	2.3	0.0	0.0	0.0	0.0
1.3	0.0	1.3	0.2	1.3	1.5	1.5	0.0	0.0	0.0	0.0
0.9	0.0	0.9	0.1	0.9	1.0	1.0	0.0	0.0	0.0	0.0
1.5	0.0	1.5	0.1	1.5	1.6	1.6	0.0	0.0	0.0	0.0
0.9	0.0	0.9	0.2	0.9	1.1	1.1	0.0	0.0	0.0	0.0
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
8.9	0.0	8.9	1.4	8.9	10.3	10.3	0.0	0.0	0.0	0.0

CONVERSIONS (M&I AND AG SPLIT)			
CARRYOVER WATER		CURR YR ALLOCATION	
M & I	Agr	M & I	Agr
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

Month
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 Nov
 Dec
 Jan
 Feb
 Mar
 Apr
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 Jul
 Aug
 Sep

SCHEDULE AND REVISIONS			SCHEDULE AND REVISIONS			
	Total	Allocation		Allocation		Total
		M & I	Agr	M & I	Agr	
Begin Bal	40.4	40.4	-	175.0	355.0	530.0
Mid-Year Allocation				700.3	1,420.7	2,121.0

*NOTE:

BALANCE - CARRYOVER WATER			BALANCE - CURR YR ALLOC			
County Parks Usage (AF)	Total	Allocation		Allocation		Total
		M & I	Agr	M & I	Agr	
Oct	2.3	37.6	-	175.0	355.0	530.0
Nov	2.0	35.3	-	175.0	355.0	530.0
Dec	1.3	33.8	-	175.0	355.0	530.0
Jan	0.9	32.8	-	175.0	355.0	530.0
Feb	1.5	31.2	-	175.0	355.0	530.0
Mar	0.9	30.1	-	875.3	1,775.7	2,651.0
Apr						
May						
Jun						
Jul						
Aug						
Sep						

TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) **2,681.1**

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

Contract Year: 10/1/18 to: 9/30/19

Contract Entity: **Santa Barbara Co. Water Agency**
 Last updated by C.O.M.B. 03/31/19

Month	CARRYOVER WATER		CURRENT YEAR ALLOCATION											
	TOTAL WATER USED		WATER USE CHARGED						WATER USE CHARGED					
	Carryover Balance Prior Yr	Approved Allocation Curr Yr	Acre-feet			Allocation			Allocation			Total		
		Use %	M & I	Agr	Total	Evap	Div	Total	M & I	Agr	M & I	Agr	Total	
Oct	14,245.2	5,142.5	0.0	372.1	78.0	450.1	174.5	450.1	624.5	523.0	101.5	0.0	0.0	0.0
Nov			0.0	530.9	87.7	618.7	124.4	618.7	743.0	638.3	104.7	0.0	0.0	0.0
Dec			0.0	1.3	12.4	13.7	59.3	13.7	73.0	42.0	31.0	0.0	0.0	0.0
Jan			0.0	0.9	9.8	10.6	51.3	10.6	61.9	36.1	25.8	0.0	0.0	0.0
Feb			0.0	1.5	3.8	5.4	36.1	5.4	41.4	26.3	15.1	0.0	0.0	0.0
Mar		20,571.5	0.0	0.9	6.2	7.2	60.6	7.2	67.8	43.6	24.2	0.0	0.0	0.0
Apr			-	-	-	-	-	-	-	-	-	-	-	-
May			-	-	-	-	-	-	-	-	-	-	-	-
Jun			-	-	-	-	-	-	-	-	-	-	-	-
Jul			-	-	-	-	-	-	-	-	-	-	-	-
Aug			-	-	-	-	-	-	-	-	-	-	-	-
Sep			-	-	-	-	-	-	-	-	-	-	-	-
Total	14,245.2	25,714.0	0.1	907.7	198.0	1,105.6	506.1	1,105.6	1,611.7	1,309.4	302.3	0.0	0.0	0.0

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

Month	SCHEDULE AND REVISIONS			SCHEDULE AND REVISIONS		
	Total	Allocation		Allocation		Total
		M & I	Agr	M & I	Agr	
Begin Bal	14,245.2	11,893.3	2,351.9	3,836.0	1,306.5	5,142.5
Oct	-	-	-	-	-	-
Nov	-	-	-	-	-	-
Dec	-	-	-	-	-	-
Jan	-	-	-	-	-	-
Feb	-	-	-	-	-	-
Mid-Year Allocation	-	-	-	15,345.1	5,226.4	20,571.5
Apr	-	-	-	-	-	-
May	-	-	-	-	-	-
Jun	-	-	-	-	-	-
Jul	-	-	-	-	-	-
Aug	-	-	-	-	-	-
Sep	-	-	-	-	-	-

Month	BALANCE - CARRYOVER WATER			BALANCE - CURR YR ALLOC			
	County Parks Usage (AF)	Total	Allocation		Allocation		Total
			M & I	Agr	M & I	Agr	
Oct	2.3	13,620.7	11,370.3	2,250.4	3,836.0	1,306.5	5,142.5
Nov	2.0	12,877.6	10,731.9	2,145.7	3,836.0	1,306.5	5,142.5
Dec	1.3	12,804.6	10,689.9	2,114.7	3,836.0	1,306.5	5,142.5
Jan	0.9	12,742.7	10,653.8	2,088.9	3,836.0	1,306.5	5,142.5
Feb	1.5	12,701.3	10,627.4	2,073.8	3,836.0	1,306.5	5,142.5
Mar	0.9	12,633.5	10,583.9	2,049.6	19,181.1	6,532.9	25,714.0
Apr	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-
Jun	-	-	-	-	-	-	-
Jul	-	-	-	-	-	-	-
Aug	-	-	-	-	-	-	-
Sep	-	-	-	-	-	-	-

TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) 38,347.5

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CACHUMA DAILY OPERATIONS

Month & Year: April 2019
 Time of Observations: 0830 Evaporation Pan Factor: 80%

Day	Beginning Storage: 151,753			Surface Area	Rainfall		Evaporation		CCWA Inflow	Releases					Computed Inflow	
	Elevation	Storage	Change		inches	acre-feet	inches	acre-feet		Park Diversion	South Coast	Hilton Creek	WR 89-18	Outlet		Spillway
	ft	acre-feet	acre-feet	acres	inches	acre-feet	inches	acre-feet	acre-feet	acre-feet	acre-feet	acre-feet	acre-feet	acre-feet	acre-feet	acre-feet
1	738.61	152,091	338	2,611	-		0.150	26.1	-		11.6	5.9	-	7.7		389.2
2	738.72	152,380	289	2,615	-		0.170	29.6	-		20.6	5.9	-	7.7		352.8
3	738.81	152,617	237	2,618	0.05	10.9	0.120	20.9	-		23.4	5.9	-	7.6		284.0
4	738.88	152,801	184	2,620	-		0.150	26.2	-		23.1	5.9	-	7.6		246.8
5	738.96	153,011	210	2,623	-		0.120	21.0	-		23.9	5.9	-	7.7		268.5
6	739.04	153,222	211	2,626	-		0.110	19.3	-		23.4	5.9	-	7.7		267.3
7	739.12	153,432	210	2,629	-		0.190	33.3	-		46.7	5.9	-	7.7		303.6
8	739.19	153,590	158	2,631	-		0.200	35.1	-		47.1	5.9	-	7.6		253.7
9	739.24	153,748	158	2,633	-		0.160	28.1	-		47.6	5.9	-	8.6		248.2
10	739.27	153,827	79	2,634	-		0.290	50.9	-		46.5	5.9	-	7.6		190.0
11	739.31	153,932	105	2,635	-		0.240	42.2	-		47.1	5.9	-	7.7		207.9
12	739.35	154,037	105	2,637	-		0.330	58.0	-		49.6	5.9	-	7.7		226.2
13	739.40	154,169	132	2,638	-		0.200	35.2	-		47.1	5.9	-	7.6		227.8
14	739.45	154,301	132	2,640	-		0.180	31.7	-		47.6	5.9	-	7.7		225.0
15	739.50	154,432	131	2,642	-		0.080	14.1	-		46.2	5.9	-	7.5		204.7
16	739.53	154,511	79	2,643	-		0.200	35.2	-		45.9	5.9	-	7.7		173.7
17	739.56	154,590	79	2,644	-		0.260	45.8	-		47.5	5.9	-	7.7		185.9
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TOTALS	2,837		0.05	10.9	3.150	552.7	-	-	-	644.9	100.4	-	131.1	-	4,255.2
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Park Usage Rain % Yr. Total

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



**Summary of Aquatic Invasive Species Vessel Inspection Program
and Early Detection Monitoring Program: **March** 2019**

Cachuma Lake Recreation Area Launch Data -- March 2019		
Inspection Data		
Total Vessels entering Park	541	
Total Vessels launched	481	
Total Vessels Quarantined	60	
Returning with Boat Launch Tag	356	70%
New: Removed from Quarantine		
Kayak/Canoe: Inspected, launched	125	30%
4-stroke Engines		
2-strokes, w/CARB star ratings		
2-strokes, NO emissions ratings		
Quarantine Data		
Total Vessels Quarantined	60	
Quarantined 7 days	*	
Quarantined 14 days	*	
Quarantined 30 days	60	
Quarantine Cause		
Water on vessel*	*	
Debris on hull*	*	
Plug installed*	*	
From infected county	2	
Ballast tanks*	*	
Boat longer than 24 feet*	*	
Out-of-state	0	
Unspecified*	*	
Mandatory Quarantine All Untagged Boats	60	
Demographic Data		
Quarantined from infected county	2	
Quarantined from SB County	56	
Quarantined from uninfected co	2	

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

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

* These conditions are no longer being tracked.

EARLY DETECTION MONITORING PROGRAM SUMMARY

Summary: No Dreissenid mussels were detected
 Inspection Site: Cachuma Lake, Santa Barbara County, California
 Inspection Date and Time: 2019.3.31; 12:00 2:00 PDT
 Method: 10 PVC/Cement Sampling Stations; 52 linear feet of line
 Surveyors: SBCO Parks
 Lake elevation: Max feet: 753.00, current 738.1; Max acre-feet: 193,305, current: 150,767;
 Current capacity: 68.0%