

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

Monday, September 23, 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 August 26, 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:
 - Special Fisheries Committee Meeting – September 12, 2019
5. **CACHUMA PROJECT WARREN ACT TRUST FUND / RENEWAL FUND 2019-2020 ANNUAL AND LONG-TERM PLANS - SANTA BARBARA COUNTY BETTERMENT FUND USE OF FUNDS**
Action: Recommend approval by motion and roll call vote of the Board
 - a. Approval of Program Expenditures – Warren Act Trust Fund for FY 2019-2020
 - b. Approval of Program Expenditures - Santa Barbara County Water Agency's Betterment Fund for FY 2019-20
6. **RESOLUTION NO. 701 – FISH PASSAGE IMPROVEMENT PROJECT AT QUIOTA CREEK CROSSING NO. 8**
For discussion and possible action by motion and roll call vote of the Board
 1. Approving Issuance of Notice of Award
 2. Authorizing Execution of Construction Contract with the Responsive, Responsible Bidder

7. **GENERAL MANAGER REPORT**

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

- Personnel
- Administration
- Engineering / Operations Activities

8. **ENGINEER / OPERATIONS DIVISION REPORT**

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

- Climate Conditions
- Lake Cachuma Water Quality and Sediment Management Study
- Sycamore Canyon Slope Stabilization Project
- San Jose Creek SCC Stream Protection Measures
- Infrastructure Improvement Plan Project Status
- Lake Cachuma Operations
- Operation and Maintenance Activities

9. **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

10. **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

11. **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

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

13. **[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

14. **RECONVENE INTO OPEN SESSION**

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

- 13a. *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. REGULAR BOARD MEETING SCHEDULE

- **October 28, 2019 at 1:00 PM, COMB Office**
- **Board Packages available on COMB website www.cachuma-board.org**

16. 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, August 26, 2019
1:00 PM**

1. CALL TO ORDER, ROLL CALL

The meeting was called to order by President Holcombe at 1:01 PM

Directors Present:

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

General Counsel Present:

William Carter, Musick, Peeler & Garrett, LLP

Staff Present:

Janet Gingras, General Manager	Tim Robinson, Fisheries Division Manager
Edward Lyons, Administrative Manager/CFO	Dorothy Turner, Administrative Assistant II
Joel Degner, Water Resources Engineer	

Others Present:

Fray Crease, SB County Water Agency	Kevin Walsh, Santa Ynez River Water
Todd Stepien, Cachuma Lake Recreation Area	Conservation District

2. PUBLIC COMMENT

There was no public comment.

3. CONSENT AGENDA

- a. Minutes of July 22, 2019 Regular Board Meeting
- b. Investment of Funds
 - Financial Reports
 - Investment Reports
- c. Review of Paid Claims

Ms. Gingras presented the Consent Agenda, noting certain revenues and expenditures of interest. She fielded questions from the Board. Director Hanson motioned to approve the Consent Agenda items. Director Sneddon seconded the motion which was approved unanimously with a vote of six in favor.

Ayes: Sneddon, Hayman, Hanson, Holcombe

Nays:

Absent:

Abstain:

4. VERBAL REPORTS FROM BOARD COMMITTEES

- *Operations Committee Meeting – August 15, 2019* - Director Sneddon reported on behalf of the Operations Committee meeting, noting items which have been moved forward to this agenda for Board discussion and possible approval.
- *Administrative Committee Meeting – August 16, 2019* – Director Holcombe reported on behalf of the Administrative Committee meeting, also noting items which have been moved forward to this agenda for Board discussion and possible approval.

5. FINANCIAL REVIEW – 4TH QUARTER FISCAL YEAR 2018-19

Mr. Lyons presented the Financial Review of fourth quarter fiscal year 2018-19, providing support for revenue and expenditure items whose results were either under or over budget for the fiscal year. He reported the new health benefit rates established by ACWA JPIA for the upcoming calendar year and reviewed the administrative deliverables for the current fiscal year. Mr. Lyons fielded questions from the Board.

6. AWIA RISK AND RESILIENCE ASSESSMENT – EMERGENCY RESPONSE PLAN

Mr. Degner provided the Board with an overview of the America's Water Infrastructure Act (AWIA) requirements and COMB's plan to develop the Risk and Resilience Assessment (RRA) and Emergency Response Plan (ERP). He noted that much of the ground work has already been accomplished through COMB's development of the Annex to the Santa Barbara County Hazard Mitigation Plan and COMB's compliance with the USBR Emergency Action Plan. COMB plans to use a VSAT template tool to develop the RRA & ERP. Additionally, Mr. Degner advised that COMB will coordinate with the Member Agencies to establish agreed upon boundaries between COMB's and the Member Agencies' infrastructures.

7. PURCHASE OF FLEET VEHICLE

Ms. Gingras provided a brief review supporting the need to replace one of the fleet vehicles. Director Sneddon motioned to approve the execution of a purchase order to replace the vehicle. Seconded by Director Hanson, the motion passed unanimously with a vote of six in favor.

Ayes: Sneddon, Hayman, Hanson, Holcombe

Nays:

Absent:

Abstain:

8. RESOLUTION NO. 698 - AIR VACUUM AIR RELEASE / BLOW-OFF STRUCTURE REHABILITATION PROJECT

Mr. Degner presented the staff memo for approval of a sole source Professional Service Agreement with Cushman Contracting Corporation for project construction costs, as well as the execution of two purchase orders for equipment. Following a short Board discussion, Director Hanson motioned that the Board approve the actions; seconded by Director Sneddon, the motion passed unanimously with a vote of six in favor.

Ayes: Sneddon, Hayman, Hanson, Holcombe

Nays:

Absent:

Abstain:

9. RESOLUTION NO. 699 - RATIFICATION OF UNEXPECTED EXPENDITURES – LAKE CACHUMA WATER QUALITY SAMPLING

Mr. Degner presented the staff memo, reporting on the recent Lake Cachuma water quality conditions which prompted expedited multiple water quality samplings and resulted in unexpected expenditure of funds. With respect to future water quality samplings, Mr. Robinson provided the Board with information about data which can be gathered via satellite and the use of COMB's Sonde water quality testing equipment. This data can be used to focus future samplings for when and where they will provide the greatest benefit. A short Board discussion followed. Director Hanson proposed modifications to the resolution and motioned that it be approved as modified. Director Hayman seconded and the modified motion was approved by a unanimous vote of six in favor.

Ayes: Sneddon, Hayman, Hanson, Holcombe

Nays:

Absent:

Abstain:

10. GENERAL MANAGER REPORT

- Personnel
- Meetings
- U.S. Bureau of Reclamation
- Administration
- Operations
- Fisheries Division

Ms. Gingras presented the General Manager report, briefly reviewing all topics within the report and highlighting Reclamation's recent actions regarding allocations, water rights releases and water rates. Additionally she provided information regarding the ACWA JPIA Risk Assessment and Reclamation's reservoir inspections. Further, she updated the Board on the Hilton Creek Watering System repair and fielded questions.

11. ENGINEER / OPERATIONS REPORT

- Climate Conditions
- Lake Cachuma Conveyance Operations
- Water Quality and Sediment Management Study
 - Sedimentation Disposition Analysis Using GIS
- Sycamore Canyon Slope Stabilization Project
- Infrastructure Improvement Project Status
- Monthly Operations

Mr. Degner presented the Engineer report, noting lower than expected water demands, the completion of the Makai secured pipeline feasibility study and the progress on the Sycamore Canyon Slope Stabilization project. He reported that designs are pending on the San Jose Creek project and that drawings have been received for the isolation valve and lower reach lateral projects.

Additionally, with respect to the Operations Division, Mr. Degner advised that annual structure maintenance is completed on the lower reach and is beginning on the upper reach. Mr. Degner fielded questions from the Board. Finally, Mr. Degner presented the Lake Cachuma Sedimentation Deposition Analysis (ESRI conference) slide show to the Board, which was well received.

12. FISHERIES DIVISION REPORT

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

Mr. Robinson presented the Fisheries Division report and updated the Board on the status of Quiota Creek Crossing 8. He reported a successful O.mykiss breeding season and large numbers of young of the year, particularly in Hilton and Salsipuedes Creeks. Mr. Robinson provided information regarding the redefinition of easements on South Refugio Road and fielded questions from the Board.

13. PROGRESS REPORT ON LAKE CACHUMA OAK TREE PROGRAM

- Maintenance and Monitoring

Mr. Robinson presented the Oak Tree program report, noting ongoing tree care and the upcoming Oak Tree Committee tour. He advised that the annual Oak Tree Committee meeting will be scheduled in the near future.

14. MONTHLY CACHUMA PROJECT REPORTS

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

Ms. Gingras presented the Cachuma Project reports, noting no unusual data. Mr. Lyons provided a recap of State Water and Cachuma Project water stored in the lake.

15. DIRECTORS' REQUESTS FOR AGENDA ITEMS FOR FUTURE MEETING

Directors requested staff to research and report back about government responsibility to provide stakeholders with watershed recovery activity and information.

Directors requested that Hilton Creek Watering System repair updates be consolidated into a single report or agenda item.

16. [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
- b. [Government Code Section 54956.9(d)(4)] Possible Litigation

The Board entered into Closed Session at 3:42 PM.

17. RECONVENE INTO OPEN SESSION

[Government Code Section 54957.7]

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

- 16a. *Cachuma Operation & Maintenance Board v. Santa Ynez River Water Conservation District, Improvement District Number 1*, Case No. 19CV01873 – Breach of Contract and Declaratory Relief
- 16b. Possible Litigation

The Board came out of Closed Session at 4:49 PM. There was no reportable action.

18. MEETING SCHEDULE

- **September 23, 2019 at 1:00 PM, COMB Office**
- **Board Packages available on COMB website www.cachuma-board.org**

19. COMB ADJOURNMENT

There being no further business, the meeting was adjourned at 4:50 PM.

Respectfully submitted,

Janet Gingras, Secretary of the Board

	<i>Approved</i>
√	<i>Unapproved</i>

APPROVED:

Polly Holcombe, President of the Board

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

	Aug 31, 19
ASSETS	
Current Assets	
Checking/Savings	
Trust Funds	
1210 · Warren Act Trust Fund	691,617.72
1220 · Renewal Fund	10,215.61
Total Trust Funds	\$ 701,833.33
1050 · General Fund	230,453.51
1100 · Revolving Fund	271,523.87
Total Checking/Savings	1,203,810.71
Accounts Receivable	
1301 · Accounts Receivable	126,571.43
Total Accounts Receivable	126,571.43
Other Current Assets	
1010 · Petty Cash	500.00
1200 · LAIF	1,620,250.03
1303 · Bradbury SOD Act Assessments Receivable	201,351.00
1304 · Lauro Dam SOD Assessments Receivable	31,080.14
1400 · Prepaid Insurance	14,764.72
Total Other Current Assets	1,867,945.89
Total Current Assets	3,198,328.03
Fixed Assets	
1500 · Vehicles	475,733.27
1505 · Office Furn & Equipment	355,185.56
1510 · Mobile Offices	97,803.34
1515 · Field Equipment	537,803.92
1525 · Paving	38,351.00
1550 · Accumulated Depreciation	(1,335,213.07)
Total Fixed Assets	169,664.02
Other Assets	
1910 · Long Term Bradbury SOD Act Assessments Receivable	4,478,803.07
1920 · Long Term Lauro SOD Act Assessments Receivable	804,089.14
1922 · Deferred Outflow of Resources (GASB 68)	581,365.00
Total Other Assets	5,864,257.21
TOTAL ASSETS	\$ 9,232,249.26

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

Aug 31, 19

LIABILITIES & EQUITY

Liabilities

Current Liabilities

Accounts Payable

2200 · Accounts Payable \$ 17,646.79

Total Accounts Payable 17,646.79

Other Current Liabilities

2550 · Vacation/Sick 182,133.24

2561 · Bradbury Dam SOD Act 201,351.00

2563 · Lauro Dam SOD Act 31,080.14

2565 · Accrued Interest SOD Act 57,465.00

2567 · Loan Payable Current EPFP 434,126.11

2590 · Deferred Revenue 701,833.33

Total Other Current Liabilities 1,607,988.82

Total Current Liabilities 1,625,635.61

Long Term Liabilities

2602 · Long Term SOD Act Liability-Bradbury 4,478,793.07

2603 · Long Term SOD Act Liability - Lauro 804,089.14

2604 · OPEB Long Term Liability 5,078,967.00

2605 · Loan Payable Principal - EPFP 416,342.76

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

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

Total Long Term Liabilities 12,709,572.97

Total Liabilities 14,335,208.58

Net Position

3000 · Opening Bal Equity (5,296,580.05)

3901 · Retained Net Assets (313,737.28)

Net Position 507,358.01

Total Equity (5,102,959.32)

TOTAL LIABILITIES & NET POSITION \$ 9,232,249.26

Cachuma Operation & Maintenance Board
Statement of Revenues and Expenditures
 Budget vs. Actuals July 2019 - Jun 2020

	Fisheries				Operations				TOTAL			
	Jul - Aug 19	Budget	\$ Over/Under Budget	% of Budget	Jul - Aug 19	Budget	\$ Over/Under Budget	% of Budget	Jul - Aug 19	Budget	\$ Over/Under Budget	% of Budget
Revenue												
3000 REVENUE												
3001 - O&M Budget (Qtrly Assessments)	\$ 234,159.00	\$ 936,631.00	\$ (702,472.00)	25.0%	\$ 921,842.00	\$ 3,687,371.00	\$ (2,765,529.00)	25.0%	\$ 1,156,001.00	\$ 4,624,002.00	\$ (3,468,001.00)	25.0%
3006 - Warren Act	0.00	591,523.00	-591,523.00	0.0%	0.00				0.00	591,523.00	-591,523.00	0.0%
3020 - Misc Income	0.00				250.00				250.00	0.00	250.00	100.0%
3021 - Grant Income	0.00				448.00				448.00	0.00	448.00	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%
3042 - Sycamore Cnyn Slope Stabln Reim	0.00				0.00	450,752.00	-450,752.00	0.0%	0.00	450,752.00	-450,752.00	0.0%
3043 - Grant-QC Crossing #8	0.00	1,010,700.00	-1,010,700.00	0.0%	0.00				0.00	1,010,700.00	-1,010,700.00	0.0%
Total 3000 REVENUE	234,159.00	2,628,854.00	-2,394,695.00	8.91%	922,540.00	4,138,123.00	-3,215,583.00	22.29%	1,156,699.00	6,766,977.00	-5,610,278.00	17.09%
Total Revenue	234,159.00	2,628,854.00	-2,394,695.00	8.91%	922,540.00	4,138,123.00	-3,215,583.00	22.29%	1,156,699.00	6,766,977.00	-5,610,278.00	17.09%
Gross Profit	\$ 234,159.00	\$ 2,628,854.00	\$ (2,394,695.00)	8.91%	\$ 922,540.00	\$ 4,138,123.00	\$ (3,215,583.00)	22.29%	\$ 1,156,699.00	\$ 6,766,977.00	\$ (5,610,278.00)	17.09%
Expense												
3100 - LABOR - OPERATIONS	\$ -				\$ 141,858.35	\$ 952,164.00	\$ (810,305.65)	14.9%	\$ 141,858.35	\$ 952,164.00	\$ (810,305.65)	14.9%
3200 VEH & EQUIPMENT												
3201 - Vehicle/Equip Mtce	0.00				5,073.32	30,000.00	-24,926.68	16.91%	5,073.32	30,000.00	-24,926.68	16.91%
3202 - Fixed Capital	0.00				0.00	15,000.00	-15,000.00	0.0%	0.00	15,000.00	-15,000.00	0.0%
3203 - Equipment Rental	0.00				520.36	5,000.00	-4,479.64	10.41%	520.36	5,000.00	-4,479.64	10.41%
3204 - Miscellaneous	0.00				0.00	5,000.00	-5,000.00	0.0%	0.00	5,000.00	-5,000.00	0.0%
Total 3200 VEH & EQUIPMENT	0.00				5,593.68	55,000.00	-49,406.32	10.17%	5,593.68	55,000.00	-49,406.32	10.17%
3300 - CONTRACT LABOR												
3301 - Conduit, Meter, Valve & Misc	0.00				1,862.65	20,000.00	-18,137.35	9.31%	1,862.65	20,000.00	-18,137.35	9.31%
3302 - Buildings & Roads	0.00				0.00	20,000.00	-20,000.00	0.0%	0.00	20,000.00	-20,000.00	0.0%
3303 - Reservoirs	0.00				0.00	30,000.00	-30,000.00	0.0%	0.00	30,000.00	-30,000.00	0.0%
3304 - Engineering, Misc Services	0.00				0.00	25,000.00	-25,000.00	0.0%	0.00	25,000.00	-25,000.00	0.0%
Total 3300 - CONTRACT LABOR	0.00				1,862.65	95,000.00	-93,137.35	1.96%	1,862.65	95,000.00	-93,137.35	1.96%
3400 - MATERIALS & SUPPLIES												
3401 - Conduit, Meter, Valve & Misc	0.00				1,271.58	65,000.00	-63,728.42	1.96%	1,271.58	65,000.00	-63,728.42	1.96%
3402 - Buildings & Roads	0.00				248.40	8,000.00	-7,751.60	3.11%	248.40	8,000.00	-7,751.60	3.11%
3403 - Reservoirs	0.00				60.91	5,000.00	-4,939.09	1.22%	60.91	5,000.00	-4,939.09	1.22%
Total 3400 - MATERIALS & SUPPLIES	0.00				1,580.89	78,000.00	-76,419.11	2.03%	1,580.89	78,000.00	-76,419.11	2.03%
3500 - OTHER EXPENSES												
3501 - Utilities	0.00				960.45	7,000.00	-6,039.55	13.72%	960.45	7,000.00	-6,039.55	13.72%
3502 - Uniforms	0.00				390.45	5,000.00	-4,609.55	7.81%	390.45	5,000.00	-4,609.55	7.81%
3503 - Communications	0.00				2,594.53	20,500.00	-17,905.47	12.66%	2,594.53	20,500.00	-17,905.47	12.66%
3504 - USA & Other Services	0.00				300.40	4,000.00	-3,699.60	7.51%	300.40	4,000.00	-3,699.60	7.51%
3505 - Miscellaneous	0.00				1,269.39	8,000.00	-6,730.61	15.87%	1,269.39	8,000.00	-6,730.61	15.87%
3506 - Training	0.00				0.00	3,000.00	-3,000.00	0.0%	0.00	3,000.00	-3,000.00	0.0%
Total 3500 - OTHER EXPENSES	0.00				5,515.22	47,500.00	-41,984.78	11.61%	5,515.22	47,500.00	-41,984.78	11.61%
4100 - LABOR - FISHERIES	111,325.44	704,515.00	-593,189.56	15.8%	0.00				111,325.44	704,515.00	-593,189.56	15.8%
4200 - VEHICLES & EQUIP - FISHERIES												
4270 - Vehicle/Equip Mtce	4,742.90	20,000.00	-15,257.10	23.72%	0.00				4,742.90	20,000.00	-15,257.10	23.72%
4280 - Fixed Capital	0.00	35,000.00	-35,000.00	0.0%	0.00				0.00	35,000.00	-35,000.00	0.0%
4290 - Miscellaneous	132.84	2,500.00	-2,367.16	5.31%	0.00				132.84	2,500.00	-2,367.16	5.31%
Total 4200 - VEHICLES & EQUIP - FISHERIES	4,875.74	57,500.00	-52,624.26	8.48%	0.00				4,875.74	57,500.00	-52,624.26	8.48%

Cachuma Operation & Maintenance Board
Statement of Revenues and Expenditures
 Budget vs. Actuals July 2019 - Jun 2020

	Fisheries				Operations				TOTAL			
	Jul - Aug 19	Budget	\$ Over/Under Budget	% of Budget	Jul - Aug 19	Budget	\$ Over/Under Budget	% of Budget	Jul - Aug 19	Budget	\$ Over/Under 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	0.00	25,000.00	-25,000.00	0.0%	0.00				0.00	25,000.00	-25,000.00	0.0%
Total 4220 · CONTRACT LABOR - FISHERIES	0.00	28,000.00	-28,000.00	0.0%	0.00				0.00	28,000.00	-28,000.00	0.0%
4300 · MATERIALS/SUPPLIES - FISHERIES												
4390 · Miscellaneous	584.11	7,000.00	-6,415.89	8.34%	0.00				584.11	7,000.00	-6,415.89	8.34%
Total 4300 · MATERIALS/SUPPLIES - FISHERIES	584.11	7,000.00	-6,415.89	8.34%	0.00				584.11	7,000.00	-6,415.89	8.34%
4500 · OTHER EXPENSES - FISHERIES												
4502 · Uniforms	0.00	3,500.00	-3,500.00	0.0%	0.00				0.00	3,500.00	-3,500.00	0.0%
Total 4500 · OTHER EXPENSES - FISHERIES	0.00	3,500.00	-3,500.00	0.0%	0.00				0.00	3,500.00	-3,500.00	0.0%
4999 · GENERAL & ADMINISTRATIVE												
5000 · Director Fees	0.00				1,293.50	12,500.00	-11,206.50	10.35%	1,293.50	12,500.00	-11,206.50	10.35%
5001 · Director Mileage	0.00				92.87	500.00	-407.13	18.57%	92.87	500.00	-407.13	18.57%
5100 · Legal	0.00				854.60	75,000.00	-74,145.40	1.14%	854.60	75,000.00	-74,145.40	1.14%
5101 · Audit	0.00				468.00	22,750.00	-22,282.00	2.06%	468.00	22,750.00	-22,282.00	2.06%
5150 · Unemployment Tax	0.00				3,149.98	5,000.00	-1,850.02	63.0%	3,149.98	5,000.00	-1,850.02	63.0%
5200 · Liability Insurance	0.00				2,558.60	50,551.00	-47,992.40	5.06%	2,558.60	50,551.00	-47,992.40	5.06%
5310 · Postage/Office Exp	0.00				503.35	5,000.00	-4,496.65	10.07%	503.35	5,000.00	-4,496.65	10.07%
5311 · Office Equip/Leases	0.00				949.64	9,200.00	-8,250.36	10.32%	949.64	9,200.00	-8,250.36	10.32%
5312 · Misc Admin Expenses	0.00				1,202.47	14,000.00	-12,797.53	8.59%	1,202.47	14,000.00	-12,797.53	8.59%
5313 · Communications	0.00				2,097.35	8,500.00	-6,402.65	24.68%	2,097.35	8,500.00	-6,402.65	24.68%
5314 · Utilities	0.00				1,513.58	9,737.00	-8,223.42	15.55%	1,513.58	9,737.00	-8,223.42	15.55%
5315 · Membership Dues	0.00				135.85	9,410.00	-9,274.15	1.44%	135.85	9,410.00	-9,274.15	1.44%
5316 · Admin Fixed Assets	0.00				0.00	3,000.00	-3,000.00	0.0%	0.00	3,000.00	-3,000.00	0.0%
5318 · Computer Consultant	0.00				2,649.27	16,500.00	-13,850.73	16.06%	2,649.27	16,500.00	-13,850.73	16.06%
5325 · Emp Training/Subscriptions	0.00				695.00	2,000.00	-1,305.00	34.75%	695.00	2,000.00	-1,305.00	34.75%
5330 · Admin Travel/Conferences	0.00				1,042.95	2,000.00	-957.05	52.15%	1,042.95	2,000.00	-957.05	52.15%
5331 · Public Information	0.00				0.00	3,500.00	-3,500.00	0.0%	0.00	3,500.00	-3,500.00	0.0%
Total 4999 · GENERAL & ADMINISTRATIVE	0.00				19,207.01	249,148.00	-229,940.99	7.71%	19,207.01	249,148.00	-229,940.99	7.71%
5299 · ADMIN LABOR	0.00				107,788.89	610,984.00	-503,195.11	17.64%	107,788.89	610,984.00	-503,195.11	17.64%
5400 · GENERAL & ADMIN - FISHERIES												
5407 · Legal - FD	1,127.00	100,000.00	-98,873.00	1.13%	0.00				1,127.00	100,000.00	-98,873.00	1.13%
5410 · Postage / Office Supplies	271.00	4,000.00	-3,729.00	6.78%	0.00				271.00	4,000.00	-3,729.00	6.78%
5411 · Office Equipment / Leases	481.34	6,518.00	-6,036.66	7.39%	0.00				481.34	6,518.00	-6,036.66	7.39%
5412 · Misc. Admin Expense	591.12	7,500.00	-6,908.88	7.88%	0.00				591.12	7,500.00	-6,908.88	7.88%
5413 · Communications	1,229.79	5,805.00	-4,575.21	21.19%	0.00				1,229.79	5,805.00	-4,575.21	21.19%
5414 · Utilities	813.45	5,243.00	-4,429.55	15.52%	0.00				813.45	5,243.00	-4,429.55	15.52%
5415 · Membership Dues	73.15	5,955.00	-5,881.85	1.23%	0.00				73.15	5,955.00	-5,881.85	1.23%
5416 · Admin Fixed Assets	0.00	3,000.00	-3,000.00	0.0%	0.00				0.00	3,000.00	-3,000.00	0.0%
5418 · Computer Consultant	1,426.53	9,000.00	-7,573.47	15.85%	0.00				1,426.53	9,000.00	-7,573.47	15.85%
5425 · Employee Education/Subscription	0.00	2,500.00	-2,500.00	0.0%	0.00				0.00	2,500.00	-2,500.00	0.0%
5426 · Director Fees	696.50	6,700.00	-6,003.50	10.4%	0.00				696.50	6,700.00	-6,003.50	10.4%
5427 · Director Mileage	50.00	300.00	-250.00	16.67%	0.00				50.00	300.00	-250.00	16.67%
5430 · Travel	197.89	2,500.00	-2,302.11	7.92%	0.00				197.89	2,500.00	-2,302.11	7.92%
5431 · Public Information	0.00	1,500.00	-1,500.00	0.0%	0.00				0.00	1,500.00	-1,500.00	0.0%

Cachuma Operation & Maintenance Board
Statement of Revenues and Expenditures
 Budget vs. Actuals July 2019 - Jun 2020

	Fisheries				Operations				TOTAL			
	Jul - Aug 19	Budget	\$ Over/Under Budget	% of Budget	Jul - Aug 19	Budget	\$ Over/Under Budget	% of Budget	Jul - Aug 19	Budget	\$ Over/Under Budget	% of Budget
5441 · Audit	252.00	12,250.00	-11,998.00	2.06%	0.00				252.00	12,250.00	-11,998.00	2.06%
5443 · Liab & Property Ins	1,377.70	24,745.00	-23,367.30	5.57%	0.00				1,377.70	24,745.00	-23,367.30	5.57%
Total 5400 · GENERAL & ADMIN - FISHERIES	8,587.47	197,516.00	-188,928.53	4.35%	0.00				8,587.47	197,516.00	-188,928.53	4.35%
5499 · ADMIN LABOR-FISHERIES	36,730.65	240,823.00	-204,092.35	15.25%	0.00				36,730.65	240,823.00	-204,092.35	15.25%
5510 · Integrated Reg. Water Mgt Plan	0.00				0.00	5,000.00	-5,000.00	0.0%	0.00	5,000.00	-5,000.00	0.0%
6000 · SPECIAL PROJECTS												
6062 · SCADA	0.00				38.81	35,000.00	-34,961.19	0.11%	38.81	35,000.00	-34,961.19	0.11%
6090 · COMB Office Building	0.00				480.00	25,000.00	-24,520.00	1.92%	480.00	25,000.00	-24,520.00	1.92%
6096 · SCC Structure Rehabilitation	0.00				1,308.25	400,000.00	-398,691.75	0.33%	1,308.25	400,000.00	-398,691.75	0.33%
6097 · GIS and Mapping	0.00				925.00	10,000.00	-9,075.00	9.25%	925.00	10,000.00	-9,075.00	9.25%
6105 · ROW Management Program	0.00				0.00	20,000.00	-20,000.00	0.0%	0.00	20,000.00	-20,000.00	0.0%
6120 · Emergency Pumping Fac Project	0.00				7,000.00	225,000.00	-218,000.00	3.11%	7,000.00	225,000.00	-218,000.00	3.11%
6132 · Sycamore Canyon Slope Stabiliz	0.00				137,442.50	605,242.00	-467,799.50	22.71%	137,442.50	605,242.00	-467,799.50	22.71%
6135 · SCC San Jose Creek Pipe Stabili	0.00				9,720.47	150,000.00	-140,279.53	6.48%	9,720.47	150,000.00	-140,279.53	6.48%
6136 · SCC Isolation Valve Evaluation	0.00				0.00	150,000.00	-150,000.00	0.0%	0.00	150,000.00	-150,000.00	0.0%
6137 · SCC Lower Reach Lateral Structu	0.00				7,000.00	150,000.00	-143,000.00	4.67%	7,000.00	150,000.00	-143,000.00	4.67%
6138 · Cachuma Watershed Mgmt Study	0.00				17,570.00	275,085.00	-257,515.00	6.39%	17,570.00	275,085.00	-257,515.00	6.39%
Total 6000 · SPECIAL PROJECTS	0.00				181,485.03	2,045,327.00	-1,863,841.97	8.87%	181,485.03	2,045,327.00	-1,863,841.97	8.87%
6200 · FISHERIES ACTIVITIES												
6201 · FMP Implementation	2,763.65	33,000.00	-30,236.35	8.38%	0.00				2,763.65	33,000.00	-30,236.35	8.38%
6202 · GIS and Mapping	0.00	10,000.00	-10,000.00	0.0%	0.00				0.00	10,000.00	-10,000.00	0.0%
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	7,936.65	100,000.00	-92,063.35	7.94%	0.00				7,936.65	100,000.00	-92,063.35	7.94%
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	353.97	30,000.00	-29,646.03	1.18%	0.00				353.97	30,000.00	-29,646.03	1.18%
Total 6200 · FISHERIES ACTIVITIES	11,054.27	194,000.00	-182,945.73	5.7%	0.00				11,054.27	194,000.00	-182,945.73	5.7%
6300 · HABITAT ENHANCEMENT												
6303 · Tributary Projects Support	0.00	20,000.00	-20,000.00	0.0%	0.00				0.00	20,000.00	-20,000.00	0.0%
6315 · Quiota Creek Crossing 8	5,550.01	1,176,000.00	-1,170,449.99	0.47%	0.00				5,550.01	1,176,000.00	-1,170,449.99	0.47%
Total 6300 · HABITAT ENHANCEMENT	5,550.01	1,196,000.00	-1,190,449.99	0.46%	0.00				5,550.01	1,196,000.00	-1,190,449.99	0.46%
7007 · INTEREST EXPENSE-EPFP	0.00				5,741.58				5,741.58	0.00	5,741.58	100.0%
Total Expense	\$ 178,707.69	\$ 2,628,854.00	\$ (2,450,146.31)	6.8%	\$ 470,633.30	\$ 4,138,123.00	\$ (3,667,489.70)	11.37%	\$ 649,340.99	\$ 6,766,977.00	\$ (6,117,636.01)	9.6%
Net Surplus/Deficit	\$ 55,451.31	\$ -	\$ 55,451.31	100.0%	\$ 451,906.70	\$ -	\$ 451,906.70	100.0%	\$ 507,358.01	\$ -	\$ 507,358.01	100.0%

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CACHUMA OPERATION & MAINTENANCE BOARD

BOARD MEMORANDUM

Date:	September 23, 2019
Submitted by:	Janet Gingras

SUBJECT: Investment Report – August 31, 2019

RECOMMENDATION

The Board of Directors receive and file the Cachuma Operation and Maintenance Board Investment Report as of August 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 August 2019, is reported at 2.341%.

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	07/31/2019	\$ 1,620,250.03
(+) Deposits/Credits		-
(-) Checks/Withdrawals		-
Statement Balance	08/31/2019	\$ 1,620,250.03

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	07/31/2019	\$ 10,215.61
	(+) Deposits/Credits		-
	(-) Checks/Withdrawals		-
	Statement Balance	08/31/2019	\$ 10,215.61
American Riviera Bank Warren Acct Trust Fund			
	Previous Balance	07/31/2019	\$ 691,617.72
	(+) Deposits/Credits		-
	(-) Checks/Withdrawals		-
	Statement Balance	08/31/2019	\$ 691,617.72

STATEMENT

The above statement of investment activity for the month of August, 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 August 31, 2019

Date	Num	Name	Memo	Amount
1050 - General Fund				
08/09/2019	27036	Association of Ca Water Agencies/JPIA	September Health Benefits Coverage	-33,657.72
08/09/2019	27037	AT&T	Long Distance Charges 6/28/19-7/27/19	-332.40
08/09/2019	27038	City of Santa-Barbara	Trash / Recycling July 2019	-249.88
08/09/2019	27039	Cori Hayman	Director Fees July 2019	-161.60
08/09/2019	27040	County of Santa--Barbara	Dump Fees - Lauro Yard Clean Up	-37.37
08/09/2019	27041	Culligan of Sylmar	RO Rental August 2019	-28.95
08/09/2019	27042	Employee Relations, Inc.	Background Check (Ops)	-104.65
08/09/2019	27043	Eurofins Calscience	Lake Cachuma Water Quality Study - Sampling	-215.00
08/09/2019	27044	Eurofins Eaton Analytical, LLC	Lake Cachuma Water Quality Study - Sampling	-1,995.00
08/09/2019	27045	Famcon Pipe & Supply	Poly Manhole Steps	-1,141.88
08/09/2019	27046	Flowers & Associates, Inc.	South Coast Conduit Lower Reach Lateral Structures - Aerial Survey	-2,960.00
08/09/2019	27047	Frontier Communications	Phone Service - Ortega Reservoir	-60.39
08/09/2019	27048	Frontier Communications	Phone Service - North Portal	-60.39
08/09/2019	27049	Frontier Communications	Phone Service - Carpinteria	-60.42
08/09/2019	27050	Frontier Communications	Phone Service - Main & Outlying Stations	-436.23
08/09/2019	27051	HDR Engineering, Inc.	San Jose Creek Pipe Stabilization - Engineering Services	-9,720.47
08/09/2019	27052	Home Depot Credit Services	Supplies (Ops)	-248.40
08/09/2019	27053	Ian's Tire & Auto Repair	2015 Ford F-150 - Four New Tires (Fisheries)	-754.27
08/09/2019	27054	Kristen Sneddon	Director Fees May & July 2019	-464.43
08/09/2019	27055	Lauren W. Hanson	Director Fees July 2019	-311.60
08/09/2019	27056	Nestle Pure Life Direct	Operations Safety	-38.08
08/09/2019	27057	Polly Holcombe	Director Fees July 2019	-288.82
08/09/2019	27058	Premiere Global Services	Conference Calls July 2019	-244.12
08/09/2019	27059	Santa Barbara Electronics Supply, LLC	Supplies (Ops)	-40.18
08/09/2019	27060	Southern California Edison	Electricity - Main & Outlying Stations	-1,466.80
08/09/2019	27061	Staples Credit Plan	Office Supplies (Ops & Fisheries)	-193.60
08/09/2019	27062	Underground Service Alert of So. Calif.	Ticket Charges & Database Fee (Ops)	-217.90
08/09/2019	27063	Wright Express Fleet Services	Fleet Fuel July 2019	-3,486.76
08/22/2019	27064	Carpinteria Valley Lumber Company	Supplies (Ops)	-129.70
08/22/2019	27065	CIO Solutions, LP	Phone System Upgrade Support - T1 Connection	-525.00
08/22/2019	27066	Coastal Copy, LP	Copier Maintenance Agreement July 2019 - Taskalfas 3051co & 6052ci	-225.95
08/22/2019	27067	Cox Communications Santa Barbara	Business Internet August 2019	-140.00
08/22/2019	27068	Cushman Contracting Corp.	EPFP Pumping System Pay Req #s 63 & 64	-7,000.00
08/22/2019	27069	Employment Development Dept.	Share of Unemployment Insurance Benefits 4/1/19-6/30/19	-3,149.98
08/22/2019	27070	Eurofins Eaton Analytical, LLC	Lake Cachuma Water Quality Study - Sampling	-1,500.00
08/22/2019	27071	Federal Express	Shipping (Ops & Fisheries)	-47.04
08/22/2019	27072	Flowers & Associates, Inc.	South Coast Conduit Lower Reach Lateral Structure - Aerial Survey	-2,325.00
08/22/2019	27073	Harrison Hardware	Supplies (Fisheries)	-201.39
08/22/2019	27074	HDR Engineering, Inc.	FMP Implementation & Quiota Creek Crossing 8 - Engineering Services	-5,669.91
08/22/2019	27075	HDR Engineering, Inc.	South Coast Conduit Structure Rehab - Engineering Services	-1,308.25
08/22/2019	27076	HDR Engineering, Inc.	South Coast Conduit Structure Rehab - Projects 2014-C-62, 2013-1-42, 2012-1-26	-1,019.63
08/22/2019	27077	Ian's Tire & Auto Repair	2012 Chevy 2500 4WD Crew Cab - 2 BFG Tires	-508.93
08/22/2019	27078	J&C Services	Office Cleaning Service - Weekly 7/12/19-8/2/19	-600.00
08/22/2019	27079	Paychex, Inc. (Payroll)	Payroll & Payroll Tax Services 7/12/19 & 7/26/19	-205.50
08/22/2019	27080	Perry Ford	2015 Ford F-150 - Rear Glass Assembly	-46.39
08/22/2019	27081	Southern California Edison	Electricity - Outlying Stations	-30.66
08/22/2019	27082	Turenchalk Network Services, Inc.	Network Support	-1,936.40
08/22/2019	27083	Verizon Wireless	Cellular Services (Ops)	-1,050.84
08/22/2019	27084	WIP Communications	Cabling T1 to Server Room	-625.80
08/26/2019	ACH082619A	American Riviera Bank (ARB)	EPFP Loan Payment 1 of 2	-28,123.75
08/26/2019	ACH082619B	American Riviera Bank (ARB)	EPFP Loan Payment 2 of 2	-10,354.21
08/30/2019	27085	Bunnin	2012 Chevy 2500 - Two spare keys	-56.78
08/30/2019	27086	Business Card	Website Hosting, Uniforms, Supplies (Ops & Fisheries)	-811.69
08/30/2019	27087	Eurofins Eaton Analytical, LLC	Lake Cachuma Water Quality Study - Sampling	-625.00
08/30/2019	27088	Flowers & Associates, Inc.	Sycamore CanyonSlope Stabilization & Lower Reach Lateral Projects - Engineering Services	-7,757.50
08/30/2019	27089	Harrison Hardware	Supplies (Fisheries)	-390.01
08/30/2019	27090	Impulse Advanced Communications	Phone Service - Main	-1,243.94
08/30/2019	27091	MarBorg Industries	Portable Facilities - Outlying Stations	-358.49
08/30/2019	27092	MNS Engineers, Inc.	South Refugio Road Crossing - Easement Surveys July 2019	-2,643.75
08/30/2019	27093	Nestle Pure Life Direct	Operations Safety	-116.39
08/30/2019	27094	PG&E	Electricity - North Portal & Tecolote Tunnel	-385.23
08/30/2019	27095	Spatial Wave	GIS & Mapping - Field Mapplet Software Maintenance October - December 2019	-925.00
08/30/2019	27096	Underground Service Alert of So. Calif.	Ticket Charges & Database Fee	-138.70
Total 1050 - General Fund				<u>-141,154.12</u>
TOTAL				<u>-141,154.12</u>

APPROVED FOR PAYMENT

Director

Director

Director

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CACHUMA OPERATION & MAINTENANCE BOARD

Special Fisheries Committee Meeting

3301 Laurel Canyon Road
Santa Barbara, CA 93105

Thursday, September 12, 2019
10:00 AM

AGENDA

Chair: Director Hanson

Alternate: 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. Cachuma Project Warren Act Trust Fund / Cachuma Project Master Contract Renewal Fund - Water Year 2019-20 Annual and Long Term Plan – Santa Barbara County Betterment Fund (*for information and possible recommendation*)
4. 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 569-1391 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:	September 23, 2019
Submitted by:	Tim Robinson
Approved by:	Janet Gingras

SUBJECT: Cachuma Project Warren Act Trust Fund / Renewal Fund - Water Year 2019-20 Annual and Long-Term Plan / Santa Barbara County Betterment Fund

RECOMMENDATION:

The Board of Directors receive and file the Cachuma Project 2019-20 Report with Annual and Long-Term Plans and approve:

- a. Recommended program expenditures of Cachuma Project Warren Act Trust Fund monies in the amount of \$591,293 for Fiscal Year 2019-20.
- b. The proposed program expenditures of the Santa Barbara County Betterment Fund monies in the amount of \$90,000 for Fiscal Year 2019-20 as agreed upon by the County and the Cachuma Member Units' representative.

SUMMARY:

Cachuma Project Warren Act Trust Fund (WATF) / Renewal Fund (RF) ("Funds Committee") Meeting

COMB Resolution No. 249, approved unanimously by the COMB Board in 1997, establishes that the processes for implementation and administration of the Cachuma Project Warren Act Trust Fund and the Master Contract Renewal Fund shall be merged and carried out under the process established by the Cachuma Project Trust Fund, with, a single Committee (the "Funds Committee") directing the preparation and implementation of Long-Term and Annual Work Plans.

The Funds Committee is authorized to prepare and implement a Long Term Plan and Annual Work Plan for expenditure of Trust Fund monies for purposes consistent with the Warren Act Memorandum of Understanding between the Central Coast Water Authority, the Bureau of Reclamation and COMB.

The Committee met in May 2019 to discuss the Draft Annual and Long Term Plan for Water Year 2019-20. The Cachuma Project Warren Act Trust Fund revenues collected for calendar year 2018 total \$591,293 based on 13,751 AF of State Water delivered to the lake during the year. There will be no Renewal Funds collected for fiscal year 2020 due to the amount of Trust Fund revenues received. The participating Committee members will be meeting for a final vote to approve the plan following COMB Board approval of recommended expenditures per COMB resolution No. 249.

In accordance with the plan document, the funds will provide revenue for environmental restoration activities (\$30,000), regulatory requirements (\$511,293), and Cachuma Project betterment (\$50,000).

Santa Barbara County Water Agency Cachuma Betterment Fund meeting

Article 8 (b) of the Cachuma Project Member Unit contracts with Santa Barbara County Water Agency requires the County Water Agency to provide \$100,000 annually for beneficial purposes consistent with the Water Agency Act and within the Santa Ynez River watershed or the Cachuma Project service area. All decisions relating to the expenditure of such funds must be agreed to by both the County Water Agency and the Cachuma Member Units' Representative, acting by unanimous vote. Consistent with past years, \$90,000 will be used for the stream gauge program. The funds were allocated for the following activities for Fiscal Year 2019-20:

USGS Stream Gauging Program (COMB)	\$ 90,000
USGS Stream Gauging Program (County of SB)	<u>\$ 10,000</u>
Total	\$100,000

FISCAL IMPACTS:

The FY 2019-20 COMB Operating Budget reflects the Warren Act Trust Fund and Santa Barbara County Betterment Fund revenue offsets for approved activities consistent with the Annual Plan.

COMMITTEE STATUS:

The Fisheries Committee reviewed the Cachuma Project Annual and Long-Term Plan for water year 2019-20 and forwards the following to the Board with a recommendation to:

- a. Receive and file the Water Year 2019-20 Annual and Long-Term Plan and approve the recommended program expenditures of Cachuma Project Warren Act Trust Fund monies in the amount of \$591,293 for FY 2019-20.
- b. Approve the proposed program expenditures of the Santa Barbara County Betterment Fund monies in the amount of \$90,000 for FY 2019-20 as agreed upon by the County and the Cachuma Member Units' representative.

LIST OF EXHIBITS:

- 1) Cachuma Project Water Year 2019-20 Report with Annual and Long-Term Plans
- 2) Santa Barbara County Cachuma Project Betterment Fund Letter

CACHUMA PROJECT WARREN ACT TRUST FUND AND CACHUMA PROJECT MASTER CONTRACT RENEWAL FUND

REPORT WITH ANNUAL AND LONG-TERM PLANS FOR WATER YEAR 2019-2020

Background

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. Department of the Interior Bureau of Reclamation (Reclamation). These two funds have similar, but not identical purposes which are explained below.

Warren Act Trust Fund

The Warren Act Trust Fund is a requirement of the Cachuma Project Warren Act Contract that the Central Coast Water Authority (CCWA) negotiated with Reclamation for delivery and transport of State Water Project (SWP) water through the Cachuma Project facilities. A 1995 memorandum of understanding (MOU) executed by Reclamation, the Cachuma Project Authority (now COMB¹), and the Central Coast Water Authority (CCWA), in conjunction with the Warren Act Contract, established a charge of \$43 per acre foot (AF) (\$58 initially with a \$15 service charge by Reclamation), for State Water Project (SWP) water delivered to the federal facility. The payment is made to CCWA by those participating agencies and passed through to COMB for administration and implementation of controlled activities as outlined in the Warren Act MOU.

Payments are required upon delivery of SWP water to the Cachuma Reservoir. CCWA makes quarterly payments to COMB based on the prior quarter's deliveries. The South Coast CCWA participants (City of Santa Barbara, Goleta Water District, Montecito Water District, and Carpinteria Valley Water District, plus La Cumbre Mutual Water Company, Morehart Land Company, and Santa Barbara Research Center), have a total entitlement of 13,750 AF per year (AFY).

Through a formalized exchange agreement, the South Coast Cachuma Project Member Agencies have an obligation to exchange their SWP water for Santa Ynez River Conservation District, ID No. 1's (ID No. 1) Cachuma Project water on an annual basis. ID No. 1's current Cachuma entitlement is 2,651 AFY. ID No. 1 currently delivers approximately 80 AFY to Cachuma Lake County Park, which reduces the amount available for exchange to approximately 2,571 AFY. This makes the maximum annual amount under normal Cachuma yield conditions to be assessed for the Cachuma Project Trust Fund approximately 11,179 AF.

SWP water was first delivered into Lake Cachuma in November 1997. From calendar year (CY) 1997 through CY 2018, a total of 104,461 AF has been delivered. Because the 1990s experienced an extended wet period, SWP water deliveries were modest. Calendar years 2000 through 2004, 2007 through 2010, and 2013 through 2018 saw an increase in SWP water deliveries due to drought conditions. SWP deliveries to the lake, in general, fluctuate according to weather conditions.

¹ CPA transferred all obligations, rights, and responsibilities to COMB in October 1996

CCWA and the Cachuma Project Authority (CPA²) created the Warren Act Trust Fund as agreed to within the 1995 Warren Act MOU. The 1995 MOU establishes a two person Trust Fund Committee with one representative from Reclamation and one representative from the CPA (now COMB).

Article 3.b. of the MOU provides that the Bureau agrees to contribute its technical expertise and water management experience to assist in administering the Trust Fund by serving as a member of the Trust Fund Committee. In addition, Article 3.c. of the MOU provides that CPA (now COMB) serves on the Trust Fund Committee, manages and administers the Trust Fund, and provides administrative services to the Trust Fund Committee which is further confirmed by COMB Board Resolution No. 249 adopted in 1997.

Article 4 of the MOU provides for the creation and composition of a Trust Fund Committee, which is comprised of one representative each from the Bureau of Reclamation and CPA (now COMB). Article 4.d. provides for the creation of an Advisory Committee comprised of one representative each from the Santa Barbara County Water Agency (Agency), U.S. Fish and Wildlife Service, California Department of Fish and Wildlife, and three public members designated by the Trust Fund Committee. The Advisory Committee shall be authorized to attend and participate in discussions held at meetings of the Trust Fund Committee, but shall have no vote.

The Trust Fund Committee is authorized to prepare and implement a Long-Term Plan and Annual Work Plan for expenditure of Trust Fund monies for purposes consistent with the MOU. CCWA can attend the Trust Fund Committee meetings but has no vote.

The Trust Fund Committee shall only take action by unanimous vote and meetings will be announced with reasonable notice. The Trust Fund Committee determines the use of the funds which shall only be expended consistent with the Long-Term (5-Year) Plan and applicable Annual Plan, and approved by the Committee. Expenditures of the Trust Fund revenues as stated in the MOU are limited to the following:

- a. Environmental Restoration - *The restoration of any riparian and other habitat of the Santa Ynez River and its watershed which has been adversely affected by the Cachuma Project facilities, including (without limitation) restoration of habitat of rare, threatened or endangered species, fish habitat or populations, and plant and animal habitat.*
- b. Wastewater Reclamation - *Projects, whether new or existing, which will promote reclamation of wastewater within the service areas of the Cachuma Member Units.*
- c. Water Conservation - *Projects which will promote water conservation within the service areas of the Cachuma Member Units.*
- d. Innovative Water Management Techniques - *Other sound and innovative water management techniques which will benefit the Cachuma Member Units in assuring their water customers a reliable water supply of high quality and reasonable price.*
- e. Cachuma Project Betterment - *Capital outlays (other than routine repair and maintenance) which contribute to improvement of the Cachuma Project facilities, including project betterment for the purposes of safety or public recreation in the Santa Ynez River or on Lake Cachuma or adjacent federally-owned lands.*

² Creation and Management of the Trust Fund and other obligations of CPA were assumed by the Cachuma Operation and Maintenance Board (COMB) when CPA merged into COMB in October 1996.

Renewal Fund

The Renewal Fund is a requirement of the 1995 Renewal Master Contract (executed in 1996) entered into for water conveyance from the Cachuma Project to the five Cachuma Project Member Units, which include the City of Santa Barbara, the Goleta Water District, the Montecito Water District, the Carpinteria Valley Water District, and the Santa Ynez River Water Conservation District, Improvement District No. 1 (ID No. 1). The Renewal Master Contract requires the payment of \$10 per acre foot of water made available by the Cachuma Project during the water year which runs from October 1st to September 30th. The Renewal Fund itself is capped at \$257,100, which is related to the annual operational yield of 25, 714 AF as outlined in the Master Contract.

Payments into the Renewal Fund are made prior to the beginning of each water year and are reduced by the prior full CY payments to the Trust Fund. For example in WY2016, the prior calendar year is 2014, because that is the nearest prior full calendar year to WY2016. Payments to the Renewal Fund are reduced *pro rata* based on the formula: 1 minus the ratio of the prior calendar year Trust Fund payment to \$300,000 (RF = [1- prior CY TF payment/\$300,000] x \$257,100). For example, if the prior CY Trust Fund payment was \$225,000, the ratio is 0.75; 1 minus 0.75 is 0.25; 0.25 times \$257,100 is \$64,275, which would be the Renewal Fund payment requirement for that water year. The combined total available funds would be the sum of those two amounts, or \$289,275. When the Trust Fund amount in the CY prior to a Cachuma Project water year is greater than \$300,000, the ratio would be greater than 1; 1 minus that amount is less than zero, so no Renewal Fund payment is required. The calculation for a zero Renewal Fund payment has occurred for WY2006, WY2016, WY2018, and WY2019 because the amount of SWP water was significant in those years.

The Cachuma Project 1995 Renewal Master Contract states that the contracting officer (Reclamation) and the Cachuma Member Units shall jointly develop a Long-Term (5-year) Plan and an Annual Work Plan. Through COMB Board Resolution No. 249, the Cachuma Project Member Units agreed unanimously to merge the processes for implementation and administration of the Cachuma Project Warren Act Trust Fund and the Cachuma Project Master Contract Renewal Fund under a single committee (referred to as the "Funds Committee") directing the preparation and implementation of Long-Term and Annual Work Plans. Resolution No. 249 also authorized the COMB Board to appoint a representative from the Cachuma Member Units to the Funds Committee who would represent the interests of and provide recommendations from the Cachuma Member Units, as well as work with Reclamation's committee member to develop joint Long-Term and Annual Work Plans for the use of both Funds. The Cachuma Project Renewal Master Contract specified that five years after adoption of the first Annual Plan, the Contractor (Santa Barbara County) shall be substituted for the Contracting Officer (Reclamation) for the Renewal Fund discussions; this change in representation began in WY2003 and Santa Barbara County has been the representative since that time. The Funds Committee composition dictates that the voting members of the Funds Committee are Reclamation, COMB and Santa Barbara County. COMB manages and administers both the Trust Fund and the Renewal Fund administration and accounts as stipulated in the Cachuma Project Renewal Master Contract and COMB Board Resolution No. 249.

Article 27(a) of the Cachuma Project Renewal Master Contract (MCA 27) describes the purposes of Renewal Fund, which include the following:

- a. *Mitigation activities for the selected alternative in the Master Contract Renewal EIS/EIR. No mitigation activities were identified, so this section does not apply.*
- b. *Activities which may be required of the Contracting Officer by State Water Resources Control Board (SWRCB) orders affecting the Project Water Rights.*
- c. *Studies described in sub-article 7 (b) which are specific to conducting and preparing studies and reports that are required to be submitted by Reclamation to the SWRCB pursuant to Board WR94-5 paragraph 3, including fisheries studies and other related studies under the continuing jurisdiction of the SWRCB.*
- d. *Studies relating to modifications in the Cachuma Project operations pursuant to sub-article 9 (g), including to protect the environment and groundwater quality downstream of Bradbury Dam, conserve Project Water, and promote efficient water management.*
- e. *Restoration of riparian or other habitat of the Santa Ynez River and its watershed which has been adversely affected by the Project.*
- f. *Activities of Reclamation pursuant to sub-article 27 (i) that are required by law to be reimbursed by the Contractor, those shall be included in the Long-Term Plan and Annual Work Plan and reimbursed by the Renewal Fund.*

Objectives of the Funds

Integration of the objectives of the two funds suggests the following categories:

1. Environmental restoration (Biological Opinion and SWRCB Orders).
2. Implementation of regulatory requirements.
3. Water management and conservation by Cachuma Project members.
4. Cachuma Project betterment.

Annual and Five-Year Plans

The contractual documents establishing the Trust Fund and Renewal Fund require preparation of an Annual Work Plan and a Five-Year Plan. Per COMB Resolution No. 249, passed unanimously by the COMB Board in 1997, the Cachuma Operation and Maintenance Board (representing the Cachuma Member Units) shall appoint a representative to the Funds Committee and said representative shall work with the Reclamation to develop joint Long Term and Annual Work Plans for use of the funds.

Revenue Estimates

Trust Fund revenues from Member Unit State Water Project (SWP) deliveries in CY2018 were \$591,293 based on 13,751 AF delivered, and Renewal Fund revenues derived from operational yield of the Cachuma Project deliveries in WY2020 will be \$0 for total available revenues of \$591,293 (Table 1). These available revenues are anticipated to be fully utilized during the coming Water Year. A historical record since 1995 and projected revenues through WY2024 for both funds are shown in Table 2. Fund amounts through WY2020 are based on the actual prior calendar year SWP water deliveries; subsequent years' revenues are based on full usage of allotted SWP water deliveries (6,977 AF), thus reaching the Trust fund projected average of \$300,000 (6,977 AF) without any projected

revenues from the Renewal Fund. If at the beginning of any water year the combined balance of the Cachuma Project Trust Fund and Renewal Fund is \$600,000 or more, then contributions to the Renewal Fund are not required for such water year. It is important to remember that SWP water orders can be changed on a monthly basis, so the actual amount delivered in any year may be quite different from projected orders. CY1998 is a good example of how orders can change where 3,888 AF of SWP water was ordered but no actual deliveries were made into the lake because Lake Cachuma was spilling through July. Deliveries were not possible after that time because fish releases were being made through the Bradbury Dam Outlet Works due to release constraints under the BiOp. Typically, advance orders will be greater than actual deliveries. The SWP water orders are first subject to an exchange with ID No. 1 as described above. The SWP water delivery amounts shown in Table 1 are in consideration of the ID No. 1 exchange amount. The Cachuma Project Member Units maximum available supply from the Cachuma Project each year is currently 25,714 AFY.

Table 1: Trust Fund and Renewal Fund calculation of contributions and assessments for WY2020.

TRUST FUND (T) (Warren Act) - State Water			
GIVEN: Q = Acre-Feet of State Water Project Deliveries to Cachuma Reservoir in 2018			
	Q =	13,751	Acre-Feet used in 2018
	T =	Warren Act Trust Fund Contribution = Q x \$43 per Acre-Foot	
THEN:	T =	13,751	x \$43
	T =	\$591,293	
WARREN ACT TRUST FUND REVENUE FOR CALENDAR YEAR 2018			
CCWA PARTICIPANTS		USED	AMOUNT DUE
		(af)	(\$)
	GOLETA WATER DISTRICT	4961	\$213,323
	CITY OF SANTA BARBARA	3203	\$137,729
	CARPINTERIA VALLEY WD	1686	\$72,498
	MONTECITO WATER DISTRICT	3198	\$137,514
	LA CUMBRE MUTUAL WATER COMPANY	627	\$26,961
	MOREHART LAND COMPANY	46	\$1,978
	SB RESEARCH CENTER (RAYTHEON)	30	\$1,290
	TOTAL	13,751	\$591,293
RENEWAL FUND (R) - Cachuma Water			
GIVEN: W = Annual Operations Yield of 25,714 af x \$10 = \$257,140			
	Renewal Fund cap:	\$257,100	
	R =	Renewal Fund Contribution = [1 - (T/\$300,000)] x W	
THEN:	R =	[1 - (\$591,293/\$300,000)] x \$257,100	
	R =	\$0	
RENEWAL FUND ALLOCATION FOR WATER YEAR 2019 - 2020 (PAYMENT DUE OCTOBER 1, 2019)			
MEMBER UNIT	COST SHARE*		AMOUNT DUE
		(%)	(\$)
	GOLETA WATER DISTRICT	36.25	\$0
	CITY OF SANTA BARBARA	32.19	\$0
	CARPINTERIA VALLEY WD	10.94	\$0
	MONTECITO WATER DISTRICT	10.31	\$0
	SANTA YNEZ RWCD ID#1	10.31	\$0
	TOTAL	100.00	\$0
* based on Cachuma Entitlement			
TOTAL FUNDS AVAILABLE FOR WATER YEAR 2019-2020:			\$591,293

Table 2: Trust Fund and Renewal Fund revenues based on SWP deliveries and constant Cachuma Project deliveries; the funds were initiated in 1997.

Trust Fund			Renewal Fund			Total Available		Expected Expenditures
Calendar Year	SWP Deliveries (AF)	Funds	Water Year	Cachuma Deliveries (AF)	Funds	Water Year	Funds	Funds
1995	-	\$0	1997	25,714	\$257,100	1997	\$257,100	\$257,100
1996	-	\$0	1998	25,714	\$257,100	1998	\$257,100	\$257,100
1997	1,502	\$64,586	1999	25,714	\$201,750	1999	\$266,336	\$266,336
1998	0	\$0	2000	25,714	\$257,100	2000	\$257,100	\$257,100
1999	505	\$21,715	2001	25,714	\$238,490	2001	\$260,205	\$260,205
2000	2,334	\$100,362	2002	25,714	\$171,090	2002	\$271,452	\$271,452
2001	809	\$34,787	2003	25,714	\$227,288	2003	\$262,075	\$262,075
2002	6,708	\$288,444	2004	25,714	\$9,903	2004	\$298,347	\$298,347
2003	4,568	\$196,424	2005	25,714	\$88,765	2005	\$285,189	\$285,189
2004	8,836	\$379,948	2006	25,714	\$0	2006	\$379,948	\$379,948
2005	506	\$21,758	2007	25,714	\$238,453	2007	\$260,211	\$260,211
2006	759	\$32,637	2008	25,714	\$229,130	2008	\$261,767	\$261,767
2007	6,316	\$271,588	2009	25,714	\$24,349	2009	\$295,937	\$295,937
2008	3,694	\$158,842	2010	25,714	\$120,972	2010	\$279,814	\$279,814
2009	2,537	\$109,091	2011	25,714	\$163,609	2011	\$272,700	\$272,700
2010	1,788	\$76,884	2012	25,714	\$191,210	2012	\$268,094	\$268,094
2011	1,013	\$43,559	2013	25,714	\$219,770	2013	\$263,329	\$263,329
2012	385	\$16,555	2014	25,714	\$242,912	2014	\$259,467	\$259,467
2013	2,638	\$113,434	2015	25,714	\$159,887	2015	\$273,321	\$273,321
2014	13,296	\$571,728	2016	25,714	\$0	2016	\$571,728	\$571,728
2015	5,542	\$238,306	2017	25,714	\$52,872	2017	\$291,178	\$291,178
2016	14,427	\$620,361	2018	25,714	\$0	2018	\$620,361	\$620,361
2017	12,547	\$539,521	2019	25,714	\$0	2019	\$539,521	\$539,521
2018	13,751	\$591,293	2020	25,714	\$0	2020	\$591,293	\$591,293
2019	6,977	\$300,000	2021	25,714	\$0	2021	\$300,000	?
2020	6,977	\$300,000	2022	25,714	\$0	2022	\$300,000	?
2021	6,977	\$300,000	2023	25,714	\$0	2023	\$300,000	?
2022	6,977	\$300,000	2024	25,714	\$0	2024	\$300,000	?
2023	6,977	\$300,000	2025	25,714	\$0	2025	\$300,000	?
2024	6,977	\$300,000	2026	25,714	\$0	2026	\$300,000	?
104,461 CY1997-2018 total SWP Delivered								
Notes:								
- Calendar years 1998 through 2018 show actual State Water deliveries to Cachuma Reservoir; following years are requested deliveries.								
- State Water deliveries are based on calendar year.								
- Cachuma Project deliveries are based on water year (October 1 through September 30).								
- Trust Fund charge is \$43 per AF;								
- Renewal fund charge is \$10 per AF (in 1995 dollars).								
- Renewal Fund is reduced by prior full calendar year Trust Fund revenue, for example, 2002 Renewal Fund amount is reduced by 2000 Trust Fund revenue.								
- Total Available is current year Renewal Fund plus full prior year Cachuma Project Trust Fund (for example, 2002 Trust Fund plus 2004 Renewal Fund).								
- Total Available will be increased by any accrued interest in the fund accounts.								

Table 3 provides a summary of the activities for which the Trust Fund and Renewal Fund revenues have been used since 1997. (See Table 2 for the calculation of annual revenues from each of the two funds). Activities are similar year to year and have focused on environmental restoration projects which include the Oak Tree restoration program of work and restoration of riparian habitat of the Santa Ynez River and its watershed including restoration of habitat for endangered species, meeting regulatory requirements outlined in the Biological Opinion such as monitoring, trapping, snorkel surveys, redd surveys, reporting and public outreach, and Cachuma Project Betterment projects such as conservation easements and watershed protection efforts, and Hilton Creek channel enhancements efforts.

Table 3: Use of the Trust Fund and Renewal Fund revenues from 1998 to 2019 by Fiscal Year.

Fiscal Year	Activities:			Total
	Environmental Restoration	Regulatory Requirements	Cachuma Project Betterment	
1998	\$257,100	\$0	\$0	\$257,100
1999	\$257,100	\$0	\$0	\$257,100
2000	\$266,336	\$0	\$0	\$266,336
2001	\$62,000	\$195,100	\$0	\$257,100
2002	\$123,200	\$99,005	\$38,000	\$260,205
2003	\$48,000	\$215,452	\$8,000	\$271,452
2004	\$75,000	\$187,075	\$0	\$262,075
2005	\$105,000	\$193,347	\$0	\$298,347
2006	\$0	\$263,189	\$22,000	\$285,189
2007	\$50,000	\$317,948	\$12,000	\$379,948
2008	\$50,000	\$198,211	\$12,000	\$260,211
2009	\$50,000	\$198,267	\$13,500	\$261,767
2010	\$42,000	\$241,437	\$12,500	\$295,937
2011	\$45,000	\$227,314	\$7,500	\$279,814
2012	\$45,000	\$222,700	\$5,000	\$272,700
2013	\$171,000	\$97,094	\$0	\$268,094
2014	\$172,000	\$91,329	\$0	\$263,329
2015	\$190,000	\$69,467	\$0	\$259,467
2016	\$425,000	\$146,728	\$0	\$571,728
2017	\$200,000	\$91,178	\$0	\$291,178
2018	\$225,000	\$365,361	\$30,000	\$620,361
2019	\$225,000	\$284,521	\$30,000	\$539,521
2020	\$30,000	\$511,293	\$50,000	\$591,293

Milestones

Below are important milestones associated with or having an effect on the LSYR Fisheries Program since the issuance of the 2000 Cachuma Project BiOp. Many of these activities have been partially funded by the Trust and Renewal Funds as well as the County's Cachuma Betterment Fund.

WY2000 (October 1999 – September 2000)

December 1999 - Completion of Hilton Creek Water Supply System* and Fish Management Plan Inaugural Ceremony

April 2000 - Lake Cachuma Spilled

September 2000 - Steelhead Biological Opinion for Cachuma Project Operations Issued by NMFS

WY2001 (October 2000 – September 2001)

October 2000 - Final LSYR Fish Management Plan

February 2001 - Lake Cachuma Spilled

November 2000 - SWRCB Hearings on Cachuma Project Water Rights Permits (Phase 1)

WY2002 (October 2001 – September 2002)

January 2002 - Completion of Salsipuedes Creek/Highway 1 Fish Passage Enhancement**

June 2002 - Administrative Draft EIR/EIS for Fish Management Plan and Biological Opinion

WY2003 (October 2002 – September 2003)

December 2002 - Cachuma Project Settlement Agreement between CCRB, ID#1, SYRWCD & City of Lompoc

April 2003 - Installation of Variable Depth Intake for Hilton Creek Watering System*

May 2003 - Pre-Hearing Conference for SWRCB Hearings on Cachuma Project Water Rights Permits

June 2003 - Draft EIR/EIS for Fish Management Plan and Biological Opinion

August 2003 - Draft SWRCB EIR on Cachuma Operations

WY2004 (October 2003 – September 2004)

Oct-Nov 2003 - SWRCB Hearings on Cachuma Project Water Rights Permits (Phase 2)

January 2004 - Cachuma Park Boat Launch Ramp Raised to Accommodate 1.8 ft Surcharge

January 2004 - Completion of Salsipuedes Creek/Jalama Road Fish Passage Enhancement*

February 2004 - Completion of El Jaro Creek Streambank Stabilization Projects**

February 2004 - MOU Regarding Surcharge of Lake Cachuma and Protection of Cachuma Park Facilities

March 2004 - Completion of Final EIR/EIS for Fish Management Plan and Biological Opinion

March 2004 - Reclamation ROD for Final EIS for Fish Management Plan and Biological Opinion

April 2004 - Installation of Bradbury Dam Gate Extensions for Cachuma Reservoir Surcharge Project

May 2004 - Revised Cachuma Project Fish Passage Supplementation Program (BiOp Term & Condition)

June 2004 - WR 89-18 Releases Monitoring Plan (BiOp Term & Condition)

August 2004 - Upper Basin Analysis - initiated

WY2005 (October 2004 – September 2005)

November 2004 - COMB Certification of Final EIR for Fish Management Plan and Biological Opinion

November 2004 - Modeling Protocol for Target Flow Monitoring Approved and Implemented

December 2004 - Crawford-Hall Filed CEQA Lawsuit against COMB for Final FMP/BiOp EIR

December 2004 - Flow Capacity Modifications for Hilton Creek Watering System and Installation of Pump*

January 2005 - Lake Cachuma Spilled

March 2005 - Amended MOU Regarding Surcharge of Lake Cachuma and Protection of Park Facilities

April 2005 - Installation of Pumping System for Hilton Creek Watering System*

April 2005 - Surcharge Lake Cachuma by 2.5 feet (~7700 acre feet) for Steelhead Fishery Downstream

July 2005 - Summer 2005 (First) Santa Ynez River Fish Management Plan Newsletter
 June 2005 - Completion of Year 1 Cachuma Oak Tree Restoration Program
 September 2005 - Senior Resources Scientist Hired for Fisheries Program

WY2006 (October 2005 – September 2006)

October 2005 - Approval Letter from NMFS for Revised Cachuma Project Fish Passage Supplementation Program
 November 2005 - Crawford-Hall Filed NEPA Lawsuit against United States for Final FMP/BiOp EIS
 November 2005 - Fall 2005 Santa Ynez River Fish Management Plan Newsletter
 December 2005 - Construction of Hilton Creek Cascade/Chute Fish Passage Enhancement (Reclamation Project) **
 January 2006 - Completion of Year 2 Oak Tree Restoration Program – (375 oak trees planted)
 February 2006 - Conducted passage supplementation during two storms
 February 2006 - Distribution of Fish Projects Brochure
 Feb-April 2006 - Supplemental Passage Flow Releases (from 2005 surcharge)
 April 2006 - Lake Cachuma Spilled
 April 2006 - Interim Agreement with County to Surcharge Lake Cachuma up to 3.0 feet
 June 2006 - Preliminary Redesign of Quiota Creek Fish Passage Projects
 July 2006 - Summer 2006 Santa Ynez River Fish Management Plan Newsletter
 May 2006 - Preliminary Design of El Jaro San Julian Fish Passage
 Sept 2006 - Preliminary Design of El Jaro Cross Creek Fish Passage

WY2007 (October 2006 – September 2007)

October 2006 - Development of GIS for Santa Ynez River Fisheries Program
 January 2007 - Winter 2007 Santa Ynez River Fish Management Plan Newsletter
 January 2007 - Completion of Year 3 Cachuma Oak Tree Restoration Program (375 oak trees planted)
 February 2007 - Winter 2007 Santa Ynez River Fish Management Plan Newsletter
 March-April 2007 - Crawford-Hall Petition to Add Caltrans to CEQA Lawsuit Against COMB for Final FMP/BiOp EIR and Hearing on Petition (unsuccessful – petition denied)
 May 2007 - Completion of Quiota Creek Watershed Draft Report
 June 2007 - WR 89-18 Releases Monitoring Plan (BiOp Term & Condition)
 July 2007 - SWRCB Revised Draft EIR on Cachuma Operation
 September 2007 - Preliminary Design of El Jaro Cross Creek Fish Passage
 September 2007 - Completion of Various AMC Reports to meet BiOp Terms & Conditions

WY2008 (October 2007 – September 2008)

December 2007 - Submitted to NMFS the 2006 Fish Passage Supplementation Report
 December 2007 - Final Design of El Jaro San Julian Fish Passage
 January 2008 - Completion of Year 4 Cachuma Oak Tree Restoration Program (375 oak trees planted)
 January 2008 - Lake Cachuma Spilled
 March 2008 - Draft Ramp-Down after Spill Protocol
 April 2008 - Agreement with County to Surcharge Lake Cachuma up to 3.0 feet
 June 2008 - Summer 2008 LSYR Fish Management Plan Newsletter
 July 2008 - Construction of El Jaro San Julian Fish Passage Project**
 August 2008 - NMFS Draft Recovery Plan Outline for Southern Steelhead
 August 2008 - Completion of the Santa Ynez River Genetics Analysis (NOAA Research Lab at UCSC)
 September 2008 - Draft Resource Management Plan EIS for Cachuma Recreation Area

WY2009 (October 2008 – September 2009)

March 2009 - Completion of El Jaro San Julian Fish Passage Project**
 October 2008 - Construction of the Quiota Creek Fish Passage Bottomless Arched-Culvert at Crossing 6**
 December 2008 - Completion of Draft 1993-2004 Santa Ynez River Fisheries Synthesis Report

January 2009 - Completion of Year 5 Cachuma Oak Tree Restoration Program (375 oak trees planted)
 February 2009 - Completion of Management Report for Santa Ynez River Genetics Analysis
 March 2009 - Completion of El Jaro San Julian Fish Passage Project**
 March 2009 - Completion of the Quiota Creek Fish Passage Bottomless Arched-Culvert at Crossing 6**
 August 2009 - Construction of Cross Creek Ranch Fish Passage Enhancement Project on El Jaro Creek
 August 2009 - Negotiations of Conservation Easements on Salsipuedes and El Jaro Creeks
 September 2009 - Completion of Various AMC Reports to meet BiOp Terms & Conditions

WY2010 (October 2009 – September 2010)

November 2009 - Completion of Cross Creek Ranch Fish Passage Enhancement Project on El Jaro Creek**
 January 2010 - Completion of Year 6 Cachuma Oak Tree Restoration Program (375 oak trees planted)
 February 2010 - Conducted passage supplementation during two storms
 April 2010 - Completion of the Surcharge Operations Protocol
 June 2010 - WR 89-18 Releases Monitoring Plan (BiOp Term & Condition)
 May 2010 - Completion of the 1.5 cfs Target Flow Operations Guidelines at Alisal Bridge
 June 2010 - Submitted to NMFS the 2010 Fish Passage Supplementation Report

WY2011 (October 2010 – September 2011)

January 2011 - Completion of Year 7 of Cachuma Oak Tree Restoration Program (375 oak trees planted)
 January 2011 - Submitted to NMFS the BiOp Compliance Binder
 March 2011 - Winter 2011 LSYR Fish Management Plan Newsletter
 March 2011 - Lake Cachuma Spilled
 May 2011 - Submittal of the 2008 Annual Monitoring Report and Trend Analysis for 2005-2008
 June 2011 - Completion of the Hilton Creek Channel Enhancement Study
 June 2011 - Submitted Compliance Report on Target Flows at Hwy 154 Bridge
 August 2011 - Summer 2011 LSYR Fish Management Plan Newsletter
 August 2011 - Construction of a Fish Passage Project at Crossing 2 on Quiota Creek**

WY2012 (October 2011 – September 2012)

Oct-Dec 2011 - Maintenance of the Cachuma Oak Tree Restoration Program
 Jan-Sept 2012 - Maintenance of the Cachuma Oak Tree Restoration Program
 November 2011 - Completion of a Fish Passage Project at Crossing 2 on Quiota Creek**
 March 2012 - Submittal of the 2009 Annual Monitoring Report
 May 2012 - Submitted Compliance Report on Target Flows at Hwy 154 Bridge
 June 2012 - Submitted Guidance Document on Target Flows at Alisal Bridge
 September 2012 - Construction of a Fish Passage Project at Crossing 7 on Quiota Creek**

WY2013 (October 2012 – September 2013)

Oct-Dec 2012 - Maintenance of the Cachuma Oak Tree Restoration Program
 Jan-Sept 2013 - Maintenance of the Cachuma Oak Tree Restoration Program
 November 2012 - Completion of a Fish Passage Project at Crossing 7 on Quiota Creek**
 March 2013 - Preliminary Design of Quiota Creek Crossing 0 Project
 March 2013 - Preliminary Design of Quiota Creek Crossing 3 Project
 June 2013 - WR 89-18 Releases Monitoring Plan (BiOp Term & Condition)
 Sept-Dec 2013 - Construction of a Fish Passage Project at Crossing 1 on Quiota Creek**
 June 2013 - Submittal of the 2011 Annual Monitoring Report (sent to NMFS 3/20/14)

WY2014 (October 2013 – September 2014)

Oct-Dec 2013 - Maintenance of the Cachuma Oak Tree Restoration Program
 Jan-Sept 2014 - Maintenance of the Cachuma Oak Tree Restoration Program
 December 2013 - Completion of a Fish Passage Project at Crossing 1 on Quiota Creek**
 March 2014 - Submittal of CDFW/FRGP Grant for Quiota Creek Crossing 0 Project

March 2014 - Submittal of CDFW/FRGP Grant for Quiota Creek Crossing 3 Project
 June 2014 - WR 89-18 Releases Monitoring Plan (BiOp Term & Condition)

WY2015 (October 2014 – September 2015)

Oct-Dec 2014 - Maintenance of the Cachuma Oak Tree Restoration Program
 Jan-Sept 2015 - Maintenance of the Cachuma Oak Tree Restoration Program
 March 2015 - Submittal of CDFW/FRGP Grant for Quiota Creek Crossing 4 Project
 June 2015 - Submittal of the 2012 Annual Monitoring Report for review
 June 2015 - WR 89-18 Releases Monitoring Plan (BiOp Term & Condition)
 September 2015 - Construction of a Fish Passage Project at Crossing 3 on Quiota Creek**

WY2016 (October 2015 – September 2016)

Oct-Dec 2015 - Maintenance of the Cachuma Oak Tree Restoration Program
 Jan-Sept 2016 - Maintenance of the Cachuma Oak Tree Restoration Program
 January 2016 - Completion of a Fish Passage Project at Crossing 3 on Quiota Creek
 February 2016 - Submittal of the 2012 Annual Monitoring Report to NMFS
 March 2016 - Submittal of CDFW/FRGP Grant for Quiota Creek Crossing 5 Project
 April 2016 - Submittal of the 2013 Annual Monitoring Report for review
 June 2016 - Submittal of CalTrans Grant for Quiota Creek Crossing 8 Project
 June 2016 - Submittal of the 2016 WR 89-18 Releases Monitoring Plan (BiOp Term & Condition)
 September 2016 - Construction of a Fish Passage Project at Crossing 0A on Quiota Creek**
 September 2016 - Construction of a Fish Passage Project at Crossing 4 on Quiota Creek**

WY2017 (October 2016 – September 2017)

Oct-Dec 2016 - Maintenance of the Cachuma Oak Tree Restoration Program
 Jan-Sept 2017 - Maintenance of the Cachuma Oak Tree Restoration Program
 October 2016 – Submittal of the 2016 WR 89-18 Releases Monitoring Report (BiOp Term & Condition)
 December 2016 - Completion of a Fish Passage Project at Crossing 0A on Quiota Creek
 December 2016 - Completion of a Fish Passage Project at Crossing 4 on Quiota Creek
 May 2017 - Submittal of CDFW/FRGP Grant for Quiota Creek Crossing 9 Project
 June 2017 - Submittal of the 2017 WR 89-18 Releases Monitoring Plan (BiOp Term & Condition)
 September 2017 - Submittal of the 2014 Annual Monitoring Report for review

WY2018 (October 2017 – September 2018) (dates after March are projected)

Oct-Dec 2017 - Maintenance of the Cachuma Oak Tree Restoration Program
 Jan-Sept 2018 - Maintenance of the Cachuma Oak Tree Restoration Program
 February 2018 – Hilton Creek gravel augmentation, completion of first of two years
 March 2017 - Submittal of CDFW/FRGP Grant for Quiota Creek Crossing 8 Project
 April 2018 - Submittal the WY2014 Annual Monitoring Summary and Report
 May 2018 - Submittal of the WY2015 Annual Monitoring Summary and Report for review
 June 2018 - Submittal of the WY2016 Annual Monitoring Summary and Report for review
 June 2018 - Submittal of the 2018 WR 89-18 Releases Monitoring Plan (BiOp Term & Condition)
 August 2018 – Submittal of the 2017 WR 89-18 Releases Monitoring Report (BiOp Term & Condition)
 August 2018 - Construction of a Fish Passage Project at Crossing 5 on Quiota Creek**
 September 2018 - Construction of a Fish Passage Project at Crossing 9 on Quiota Creek**

WY2019 (October 2018 – September 2019) *(dates after March are projected)*

Oct-Dec 2018 - Maintenance of the Cachuma Oak Tree Restoration Program

Jan-Sept 2019 - Maintenance of the Cachuma Oak Tree Restoration Program

October 2018 – Submittal the WY2018 Annual Monitoring Summary and Report to USBR and NMFS

November 2018 – Hilton Creek gravel augmentation, completion of the second of two years

December 2018 – Awarded a CDFW/FRGP Grant for the Quiota Creek Crossing 8 Project

December 2018 – Completion of the Fish Passage Project at Crossing 5 on Quiota Creek**

December 2018 – Completion of the Fish Passage Project at Crossing 9 on Quiota Creek**

February 2019 - Submittal of the 2018 WR 89-18 Releases Monitoring Report (BiOp Term & Condition)

April 2019 - Submittal of the WY2016 Annual Monitoring Summary and Report to USBR and NMFS

May 2019 - Submittal of the WY2017 Annual Monitoring Summary and Report for review

June 2019 - Submittal of the WY2017 Annual Monitoring Summary and Report to USBR and NMFS

September 2019- Submittal of the WY2018 Annual Monitoring Summary and Report for review

September 2019- Submittal of the WY2018 Annual Monitoring Summary and Report to USBR and NMFS

* Funded from Federal Safety of Dams Program for Bradbury Dam Seismic Retrofit.

** Full or partial grants were/are in place for these projects.

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FIVE YEAR PLAN WY2020 TO WY2024

The Funds Committee, with suggestions from the Advisory Committee, develops a long-term or Five-Year Plan for use of the revenues from both the Trust Fund and Renewal Fund. The Five-Year Plan is a dynamic document that is updated annually to reflect revised projected work as projects and monitoring efforts are added that directly benefit the Cachuma Project, the LSYR Fisheries Program, and other obligations of the Cachuma Member Units on behalf of Reclamation. These projected activities are called for in the Cachuma Project Biological Opinion (BiOp) and further described in the LSYR Fish Management Plan (FMP). Projected annual revenues are calculated based on an inverse relationship between the two funds stemming from fees charged for State water deliveries into Lake Cachuma, and have historically ranged from a minimum of \$257,100 to a maximum of \$620,361. The Five-Year Plan is a long-term, forward thinking, planning tool which coordinates the use of Trust and Renewal fund revenues according to their intended uses as outlined in this plan.

Table 4 summarizes activities and expenditures based on actual revenues available for WY2020 and projected revenues and expenses for WY2020-24. Expenditures for environmental restoration efforts include implementation of the Oak Tree Restoration Program, restoration of riparian and other habitat of the Santa Ynez River and its watershed, including (without limitation), restoration of rare, threatened or endangered species, fish habitat or populations, and plant and animal habitat.

Expenditures related to fulfill regulatory requirements as set forth in the Biological Opinion and SWRCB Orders include implementation of ongoing studies along the Santa Ynez River, monitoring and recording changing conditions, genetic analysis, long-term monitoring program, snorkel and redd surveys, trapping activities, and reporting compliance.

A large concern evolving from the recent wildfires in and around the lake is protection of the Cachuma Project watershed (erosion control and lake water quality and sedimentation) across the entire Santa Ynez River watershed which is of particular concern for the *O. mykiss* fishery below Lake Cachuma and water supply in general.

Year 1 activities are developed in more detail in the WY2020 Annual Plan (Table 4) below because these expenditures are specifically included in the COMB budget for Fiscal Year 2019-20 (July 1, 2019 through June 30, 2020). In Years 1 and 2 (WY2020 and WY2021), the Oak Tree Restoration program will continue maintenance of the trees planted during the previous 13 years, and will be planting additional oak trees in the late fall of each year. The Biological Opinion and SWRCB Orders compliance activities will continue with the longstanding monitoring, analysis, reporting and outreach efforts. Cachuma Project betterment (watershed protection in the case of WY2020) across the Santa Ynez River basin will also be addressed. During the remaining years (WY2022-WY2024), a similar level of effort for the estimated use of the funds is outlined in the table.

Table 4: The Five-Year Plan (WY 2020-2024)*.

Year 1: WY2020 (October 2019 - September 2020)		
Funds Available:		\$591,293
Expenditures:		
Environmental Restoration		\$30,000
Oak Tree Restoration Program	\$30,000	
Regulatory Requirements		\$511,293
Monitoring, Analyses and Reporting	\$496,293	
Genetic Analyses	\$15,000	
Cachuma Project Betterment		\$50,000
		\$591,293
Year 2: WY2021 (October 2020 - September 2021)		
Estimated Funds Available:		\$300,000
Possible Expenditures:		
Environmental Restoration		\$30,000
Oak Tree Restoration Program	\$30,000	
Regulatory Requirements		\$220,000
Monitoring, Analyses and Reporting	\$205,000	
Genetic Analyses	\$15,000	
Cachuma Project Betterment		\$50,000
		\$300,000
Year 3: WY2022 (October 2021 - September 2022)		
Estimated Funds Available:		\$300,000
Possible Expenditures:		
Environmental Restoration		\$30,000
Oak Tree Restoration Program	\$30,000	
Regulatory Requirements		\$220,000
Monitoring, Analyses and Reporting	\$205,000	
Genetic Analyses	\$15,000	
Cachuma Project Betterment		\$50,000
		\$300,000
Year 4: WY2023 (October 2022 - September 2023)		
Estimated Funds Available:		\$300,000
Possible Expenditures:		
Environmental Restoration		\$30,000
Oak Tree Restoration Program	\$30,000	
Regulatory Requirements		\$220,000
Monitoring, Analyses and Reporting	\$205,000	
Genetic Analyses	\$15,000	
Cachuma Project Betterment		\$50,000
		\$300,000
Year 5: WY2024 (October 2023 - September 2024)		
Estimated Funds Available:		\$300,000
Possible Expenditures:		
Environmental Restoration		\$30,000
Oak Tree Restoration Program	\$30,000	
Regulatory Requirements		\$220,000
Monitoring, Analyses and Reporting	\$205,000	
Genetic Analyses	\$15,000	
Cachuma Project Betterment		\$50,000
		\$300,000
* Estimated available carryover funds from the previous water year - \$0.		
** For project operating expenses, construction match, and design and technical support.		

**ANNUAL PLAN
WY2020**

Table 5 lists the activities in the WY2020 Annual Plan that will be funded through the Trust Fund and Renewal Fund revenues. The 2000 Cachuma Project Biological Opinion (BiOp) and associated LSYR Fish Management Plan (FMP) and the SWRCB Orders provide guidance on likely activities or projects for the use of the Trust Fund and Renewal Fund revenues. Even though some of the habitat restoration projects will be grant funded, the sum of these activities is still greater than the funding available from the Trust Fund and Renewal Fund. Tasks listed take into consideration restricted usage of the two Funds as stated in the Cachuma Project Warren Act Contract and Cachuma Project Renewal Master Contract, plus activities funded by the Santa Barbara County Water Agency Cachuma Betterment Fund. All Biological Opinion compliance work includes required monitoring, analyses and reporting.

Table 5: The Annual Plan for WY2020.

2020 Revenues:		
Trust Fund (CY2018)	\$591,293	
Renewal Fund (WY2020)	\$0	
Total Funds Available:		\$591,293
2020 Expenditures:		
Environmental Restoration		\$30,000
Oak Tree Restoration Program	\$30,000	
Regulatory Requirements		\$511,293
Monitoring, Analyses and Reporting	\$496,293	
Genetic Analyses	\$15,000	
Cachuma Project Betterment		\$50,000
Total Expenditures:		\$591,293

The Biological Opinion and SWRCB Orders compliance implementation program of work encompasses a wide range of field and analytical activities to comply with the 15 Reasonable and Prudent Measures outlined in the 2000 Cachuma Project BiOp and the monitoring plan described in the 2000 Biological Assessment and FMP. These efforts include monitoring steelhead migration throughout the LSYR basin, dry-season snorkel surveys, redd surveys, habitat mapping, water quality monitoring, GIS database development, beaver dam monitoring, stream discharge measurements, integrated multivariate database development, report writing, and public outreach.

The Oak Tree Restoration Program is a multi-year planting and maintenance effort to replace oak tree losses around Cachuma Reservoir due to saturation and inundation of trees near the shore resulting from the fish conservation surcharge pool. The program will continue until the mitigation ratio of 2:1 (planted to lost) has been accomplished after 20 years in 2025. The allocation for the Oak Tree Restoration Program is about half of the actual cost.

Wild fires are a continuous concern throughout the Santa Ynez River watershed and along the South Coast. Funds for Cachuma Project betterment (per Section 5e of the Warren Act MOU) have been dedicated to watershed protection activities (erosion control and Lake Cachuma water quality and sedimentation). Tasks include but are not limited to prevention of erosion, facility protection from stormflow debris, water quality monitoring, and measures for improvement of general lake water quality. This effort will be of benefit to the *O. mykiss* fishery within the management area as well as water supply.

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BETTERMENT FUND

For reference only, the Santa Barbara Water Agency shall provide \$100,000 per year into the Cachuma Betterment Fund that must be used for Cachuma Project related activities as specified in the 1996 Cachuma Project Member Unit Contracts between the County of Santa Barbara Water Agency and the Cachuma Project Member Units. The Cachuma Project Member Units and the Water Agency must mutually agree on the use of these funds. Representatives of the Betterment Fund convene an annual meeting not in association with the Trust and Renewal Funds annual meeting. Usage of the Betterment Funds since WY2012 and proposed usage in WY2020 are presented in Table 6. COMB has an annual contract with the U. S. Geological Survey (USGS) to perform the required stream gauging and water quality monitoring.

Table 6: Betterment Fund usage since Santa Barbara County Fiscal Year (FY) 2012 (7/1/11-6/30/12) and proposed usage in FY2020 (7/1/19-6/30/20).

FY2012 (July 2011 - June 2012)		
Carryover from WY2011:		\$0
COMB USGS Santa Ynez River Gauging Program		\$75,000
BiOp and FMP Implementation Activities		\$15,000
Santa Barbara County USGS Santa Ynez River Gauging Program		\$10,000
		\$100,000
FY2013 (July 2012 - June 2013)		
Carryover from WY2012:		\$0
COMB USGS Santa Ynez River Gauging Program		\$75,000
BiOp and FMP Implementation Activities		\$15,000
Santa Barbara County USGS Santa Ynez River Gauging Program		\$10,000
		\$100,000
FY2014 (July 2013 - June 2014)		
Carryover from WY2013:		\$0
COMB USGS Santa Ynez River Gauging Program		\$75,000
BiOp and FMP Implementation Activities		\$15,000
Santa Barbara County USGS Santa Ynez River Gauging Program		\$10,000
		\$100,000
FY2015 (July 2014 - June 2015)		
Carryover from WY2014:		\$0
Possible Expenditures:		
COMB USGS Santa Ynez River Gauging Program		\$75,000
BiOp and FMP Implementation Activities		\$15,000
Santa Barbara County USGS Santa Ynez River Gauging Program		\$10,000
		\$100,000

FY2016 (July 2015 - June 2016)		
Carryover from WY2015:		\$0
Possible Expenditures:		
COMB USGS Santa Ynez River Gauging Program		\$75,000
BiOp and FMP Implementation Activities		\$15,000
Santa Barbara County USGS Santa Ynez River Gauging Program		\$10,000
		\$100,000
FY2017 (July 2016 - June 2017)		
Carryover from WY2016:		\$0
Possible Expenditures:		
COMB USGS Santa Ynez River Gauging Program		\$75,000
BiOp and FMP Implementation Activities		\$15,000
Santa Barbara County USGS Santa Ynez River Gauging Program		\$10,000
		\$100,000
FY2018 (July 2017 - June 2018)		
Carryover from WY2017:		\$0
Possible Expenditures:		
COMB USGS Santa Ynez River Gauging Program		\$90,000
Santa Barbara County USGS Santa Ynez River Gauging Program		\$10,000
		\$100,000
FY2019 (July 2018 - June 2019)		
Carryover from WY2018:		\$0
Possible Expenditures:		
COMB USGS Santa Ynez River Gauging Program		\$90,000
Santa Barbara County USGS Santa Ynez River Gauging Program		\$10,000
		\$100,000
FY2020 (July 2019 - June 2020)		
Carryover from WY2019:		\$0
Possible Expenditures:		
COMB USGS Santa Ynez River Gauging Program		\$90,000
Santa Barbara County USGS Santa Ynez River Gauging Program		\$10,000
		\$100,000



Santa Barbara County Public Works Department
Flood Control ♪ Water Agency ♪ Project Clean Water

June 5, 2019

Janet Gingras, General Manager
Cachuma Operation and Maintenance Board
3301 Laurel Canyon Road
Santa Barbara, CA 93105

RE: Expenditure of County Water Agency's Cachuma Project Betterment Fund \$100,000 Annual Contribution for Fiscal Year 2019-2020

Dear Ms. Gingras,

At the public meeting held May 30th regarding the County Water Agency's \$100,000 Cachuma Betterment Fund, the Cachuma Operation and Maintenance Board (COMB), acting on behalf of the Cachuma Member Units, and the County Water Agency, agreed that the funds should be allocated toward the following activities for Fiscal Year 2019-20:

COMB USGS Santa Ynez River Gauging Program	\$90,000
Santa Barbara County USGS Santa Ynez River Gauging Program	\$10,000
Total	\$100,000

COMB will recommend approval of the program expenditures at your Board of Directors meeting on June 24th and the Betterment Fund has been included in recommendations for the Water Agency's 2019-20 budget to be adopted by the Board of Supervisors on June 11th, 2019.

Regards,

A handwritten signature in blue ink that reads "Fray A. Crease".

Fray A. Crease
Water Agency Manager

cc: Tim Robinson, Cachuma Operation and Maintenance Board

Item #5
Exhibit #2
Page 1

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CACHUMA OPERATION & MAINTENANCE BOARD

BOARD MEMORANDUM

Date:	September 23, 2019
Submitted by:	Tim Robinson
Approved by:	Janet Gingras

SUBJECT: Resolution No. 701 - Fish Passage Improvement Project at Quiota Creek Crossing 8

RECOMMENDATION:

The Board authorize the General Manager, through adoption of Resolution No. 701, to issue a Notice of Award and execute a construction contract for the Quiota Creek Crossing 8 Project to the responsive and responsible bidder, Peter Lapidus Construction, in an amount not to exceed \$719,975.

SUMMARY:

The Quiota Creek Crossing 8 Project was publicly distributed for open competitive bidding on September 4, 2019. A required pre-bid site visit was conducted on September 10, 2019 with bids due on Wednesday, September 18, 2019 at 9:00 AM. One bid was received. The bid was evaluated and scored for compliance by engineering staff from Montecito Water District and Carpinteria Valley Water District. Through the competitive bidding and review process, Peter Lapidus Construction, Inc was deemed a responsive and responsible bidder with a cost proposal of \$719,975. Construction is estimated to take two to three months for the completion of the project. Permits require that all instream work be completed by October 31st and that the project in its entirety is completed by December 15, 2019.

The following is a description of the project.

Quiota Creek Crossing 8

A 54-foot prefabricated bottomless arched culvert with four wing walls is planned to replace the current damaged concrete low flow crossing with temporary bridge placed on top at Quiota Creek Crossing 8. The project is being designed to the minimum design standards set by all regulatory agencies. The project construction will begin in late September and be completed in December of 2019. All funding for this project has been secured from a CDFW-FRGP grant (\$1,010,700) with Member Agency assessments and a COMB construction match. The funding and project were accepted through Resolution No. 682 by the COMB Board on January 28, 2019. The COMB General Manager, through Resolution No. 700, was given Board authorization to pay the County Encroachment Permit, purchase the Contech bridge system, and solicit bids for the construction of the project. Final design approval and the Notice to Proceed (NTP) from CDFW-NMFS have been received. The County has approved the designs and issued the Encroachment Permit for the project. All permits for the project have been secured. COMB's resident engineer for the project will be Gino Filippin of Filippin Engineering who has been approved by the County. The temporary construction Right-of-Entry Agreements from the landowners within the project boundary have been obtained.

FINANCIAL IMPACT:

COMB is obligated to a \$50,000 construction match, \$65,727 for staff time (COMB services), and \$121,398 for operations expenses (independent design review, all permit fees, etc.). The COMB budget provides \$1,176,000 for construction for this fiscal year. Revenues will cover the costs to purchase the ConTech arch system, construction of the project, and operating expenses. A summary of the project costs are provided below:

		FY 2019-20
Estimated Construction Cost		
Construction Estimate (*)		\$ 1,073,575
Project Management and Oversight		65,727
Operating Expenses		121,398
	Sub Total:	\$ 1,260,700
Available Funding		
CDFW Grant (Operating and Construction)		\$ 1,010,700
Member Agency Assessments		250,000
	Sub Total:	\$ 1,260,700
Balance to be Funded by Member Agencies		\$ -
(*) Includes ConTech Invoice for Bridge System		

A summary of ongoing project financials will be presented separately in a monthly memo in the COMB Board packet.

Construction Contractor

The only bidder on the project was deemed responsive and responsible by the two engineers reviewing the bid. Peter Lapidus Construction, Inc. is the responsive, responsible bidder at \$719,975 for the Quiota Creek Crossing 8 Project.

LEGAL CONCURRENCE:

All documents have been or will be reviewed by COMB legal counsel.

ENVIRONMENTAL COMPLIANCE:

All conditions outlined in the permits for the project will be followed.

LIST OF EXHIBITS:

1. COMB Board Resolution No. 701

RESOLUTION NO. 701

RESOLUTION OF THE GOVERNING BOARD OF THE CACHUMA OPERATION & MAINTENANCE BOARD APPROVING ISSUANCE OF A NOTICE OF AWARD AND AUTHORIZING CONTRACT EXECUTION WITH PETER LAPIDUS CONSTRUCTION, INC. FOR CONSTRUCTION OF THE FISH PASSAGE IMPROVEMENT PROJECT AT QUIOTA CREEK CROSSING NO. 8

WHEREAS, the Cachuma Operation & Maintenance Board (“COMB”) is a joint powers authority and public entity, organized and existing in the County of Santa Barbara in accordance with Government Code Section 6500 *et seq.*, and operating pursuant to the 1996 Amended and Restated Agreement for the Establishment of a Board of Control to Operate and Maintain the Cachuma Project - Cachuma Operation And Maintenance Board, dated May 23, 1996 (“Amended and Restated Agreement”), as amended by an Amendment to the Amended and Restated Agreement made effective September 16, 2003; and as amended by the Second Amendment to the 1996 Amended and Restated Agreement made effective November 20, 2018 (collectively the “Joint Powers Agreement”); and

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

WHEREAS, the Member Agencies of COMB consist of the Goleta Water District, the City of Santa Barbara, the Montecito Water District, and the Carpinteria Valley Water District; and

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

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

WHEREAS, the fish passage improvements at Crossing Number 8 on Quiota Creek, a tributary to the Lower Santa Ynez River, will provide improved access to the perennial reaches of Quiota Creek and restore habitat to enhance conditions for steelhead (the “Project”). The Project will replace an existing temporary bridge that was constructed on the remnants of an “at-grade” Arizona-type concrete crossing with a 54-foot prefabricated concrete bottom-less arched culvert (or bridge), which will remain owned, operated and maintained by the County of Santa Barbara. The new bridge system will consist of an internal span of 54 feet and rise approximately 14 feet. A single 18-foot wide lane road surface will be constructed over the top of the arch of the bridge connecting to the existing County road surface; and

WHEREAS, in 2019, COMB was awarded One Million Ten Thousand Seven Hundred Dollars (\$1,010,700) in CDFW-Fisheries Restoration Grant Program (“FRGP”) funding (the “Grant”); and

WHEREAS, COMB estimates that the total expenditures for the Project would be approximately One Million Two Hundred Sixty Thousand Seven Hundred Dollars (\$1,260,700), which would include state grant funding in the amount of \$1,010,700, along with assessments from the Member Agencies including a construction match of \$50,000; and

WHEREAS, on January 28, 2019, the COMB Governing Board approved Resolution No. 682 accepting the Grant to fund a significant portion of the total expenditures necessary for the Project; and

WHEREAS, on September 3, 2019, the COMB Governing Board adopted Resolution No. 700 conditionally approving expenditures for the construction of the Project; and

WHEREAS, on September 4, 2019, the contingency condition pertaining to the Board approval of expenditures for the Project were met and satisfied by the County signing “Addendum 5” (Exhibit F) and “Addendum 6” (Exhibit G) relating to Quiota Creek Crossings No. 3 and 4, respectively, to the Master Agreement between the County of Santa Barbara and COMB for the Maintenance of Roadway and Improvements for Quiota Creek Crossings on Refugio Road, dated June 4, 2013 (“MOU”) (the “Contingency Condition”); and

WHEREAS, COMB has secured the applicable environmental permits necessary to construct the Project; and

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

WHEREAS, a competitive bidding process was performed for the Project, which requested responsive bids, with any received and sealed bids opened on September 18, 2019, and with Peter Lapidus Construction, Inc. prevailing as the responsive, responsible bidder for said Project; and

WHEREAS, it is in the best interest of COMB to enter into a contract with Peter Lapidus Construction, Inc. for the Project, including for the reasons provided in the related staff report.

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

1. The Governing Board finds and determines that the facts set forth in the above recitals and in the documents referenced herein are true and correct.
2. The Governing Board authorizes a Notice of Award be issued and approves a contract to be executed with Peter Lapidus Construction, Inc. for the construction of the Fish Passage Improvement Project at Quiota Creek Crossing No. 8 in a total amount not to exceed \$719,975.

3. The Governing Board further authorizes COMB's officers and staff, including the General Manager, to continue to do all things necessary and appropriate, including, but not limited to, execution and delivery of necessary documents, the obtaining of applicable permits, and any other actions to construct and implement the Project using the approved expenditures.

4. This Resolution shall take effect immediately.

PASSED, APPROVED AND ADOPTED by the Governing Board of the Cachuma Operation and Maintenance Board, this 23rd day of September 2019, by the following roll call vote:

Ayes:

Nays:

Absent:

Abstain:

APPROVED:

President of the Governing Board

ATTEST:

Secretary of the Governing Board

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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.”

September 23, 2019

General Manager Report

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

Personnel

- **Staff Training**

Administrative Staff participated in the final two webinars of a three-part series hosted by the Water Information Sharing and Analysis Center (WaterISAC). The webinar series is intended to prepare a public utility to complete a cybersecurity assessment in accordance with AWWA J100 standard, the risk and resiliency assessment, and the emergency response plan requirements under AWIA.

The second webinar topic was titled Cyber Assessment: Process Control and SCADA System Risks in WaterISAC’s series titled Conducting Risk Assessments under America’s Water Infrastructure Act (AWIA). The webinar reviewed operational technology (OT) system risks, specifically risks associated with operational control systems and their unique challenges including distribution of remote sites, data exchanges, interfaces, and 24/7 operational requirements.

The third webinar topic was titled Cyber Assessment: Business System Risks. The webinar reviewed information technology (IT) system risks and identified risks associated with data, internal and public facing access (e.g. portals), payment systems, remote access, interfaces and hosted solutions.

On August 29th, three COMB Division Managers participated in Sexual Harassment Prevention training held at the Carpinteria Valley Water District. The two-hour program satisfied California requirements for management training as established by AB 1825, AB 2053 and AB 1661.

On September 11th, Administrative staff participated in a webinar hosted by the California Society of Municipal Finance Officers. The topic was Interpreting and Communicating the New CalPERS Actuarial Report. The panel consisted of CalPERS staff which provided participants with an overview of the most recent valuation report dated June 30, 2018 and suggestions for communicating critical information in key budget and planning documents.

Three COMB staff members completed exams for the Water Distribution Operator Certification (Levels 2 and 3) offered by the State Water Resources Control Board’s Division of Drinking Water. Results of the testing will become available in approximately six weeks.

- **Dam Tender Training**

COMB Operations staff will participate in Dam Tender Training scheduled for early November. In accordance with established Bureau of Reclamation policy, all personnel who operate Government-owned or Government-financed Dams must attend Dam Operator Training. All dam operators are required to attend classroom training every 4 years and onsite training no less than every 8 years, as stated in Directives and Standards, FAC TRMR-66. The purpose of the training is to ensure that operating personnel are aware of their responsibilities for safe operation and maintenance of dams. Training will be conducted in an informal atmosphere with emphases on discussion of the agenda topics.

Administration

- **Grant Funding Opportunities**

FEMA recently published a Notice of Funding Opportunity for Non-Disaster Mitigation Grants for fiscal year 2019. FEMA has allocated \$410 million of grant funding into two categories: Pre-Disaster Mitigation (\$250 million) and Flood Mitigation Assistance (\$160M). COMB staff has identified three mitigation projects and has prepared a Notice of Interest (NOI). If considered, a notification provided by CalOES would be sent to COMB for submittal of a sub-application. The sub-applications are due by the end of calendar year 2019 and CalOES will subsequently rank the sub-applications for priority funding. Grant awards would be announced at the end of calendar year 2020.

- **Employee Handbook**

Staff continues to develop policies using the most current legal information available to complete a revised draft Employee Handbook for submission to ACWA/JPIA for review and comment. Once reviewed by ACWA/JPIA, the draft Employee Handbook will be presented to legal counsel prior to submission to the Administrative Committee. Staff anticipates Board review in the next few months.

- **O & M Contract Renewal**

Over the past several months, staff has been in contact with Reclamation's Chief of Contracts (Fresno) about the status of the O & M contract renewal. The template document is currently under internal review with staff at Reclamation and will be sent to the solicitor's office in Sacramento once review has been completed. No date has been identified for transmittal to COMB and its Member Agencies.

Engineering / Operations Activities

- **CalTrans**

COMB staff contacted CalTrans to discuss the current condition of erosion control components on the hillslope area of the 154 near DeVaul Canyon. CalTrans is currently working in the area and will be placing additional erosion control measures in the area of the debris flow in anticipation of the upcoming winter weather. The erosion control measures will include the placement of mid-slope fiber rolls and linear sediment barriers near the toe of the slope to further mitigate the potential for runoff and debris. Staff will be working with CalTrans on suggested guidelines for erosion control measures related to future work areas around the reservoir.

- **Infrastructure Improvement Plan**

Staff continues the development of the Five-Year Infrastructure Improvement Plan and will provide a draft version to Member Agency staff for review once completed. Staff anticipates the presentation of the plan to the Operations Committee during the second quarter of this fiscal year.

General Manager Report
September 23, 2019

- **Fiscal Year 2019-20 Operations Work Plan**

The Fiscal Year 2019-20 Operations Work Plan is under development with a revised format that will enable staff to utilize the plan more effectively and record the required USBR annual compliance measures efficiently. Once completed, the Work Plan will be presented to the Operations Committee and the Board.

Respectfully Submitted,

Janet Gingras
General Manager

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CACHUMA OPERATION AND MAINTENANCE BOARD

MEMORANDUM

DATE: September 23, 2019
TO: Janet Gingras, General Manager
FROM: Joel Degner, Water Resources Engineer
RE: **MONTHLY ENGINEERING/OPERATIONS REPORT**

The following summary provides the Board with information and an overview of progress by engineering staff related to on-going studies and infrastructure improvement projects.

CLIMATE CONDITIONS

Water exports from Lake Cachuma in August continued to be lower than anticipated (approximately 25 percent). ENSO-neutral is favored during the Northern Hemisphere fall 2019 (~75% chance), continuing through spring 2020 (55-60% chance) according to the National Weather Service Climate Prediction Center. The antecedent moisture index at Gibraltar Dam is 12.5 indicating dry soil conditions.

LAKE WATER QUALITY AND SEDIMENT MANAGEMENT STUDY

Additional nutrient and algal sampling is continuing to be conducted by COMB staff in the summer months to fill in data gaps in the existing sampling program with advisement from Woodard & Curran consultants. In support of the study, COMB is investigating metrics for watershed health in relation to potential water quality and sediment impacts. Figure 1 shows the time since last fire for the vegetation in the Lake Cachuma watershed.

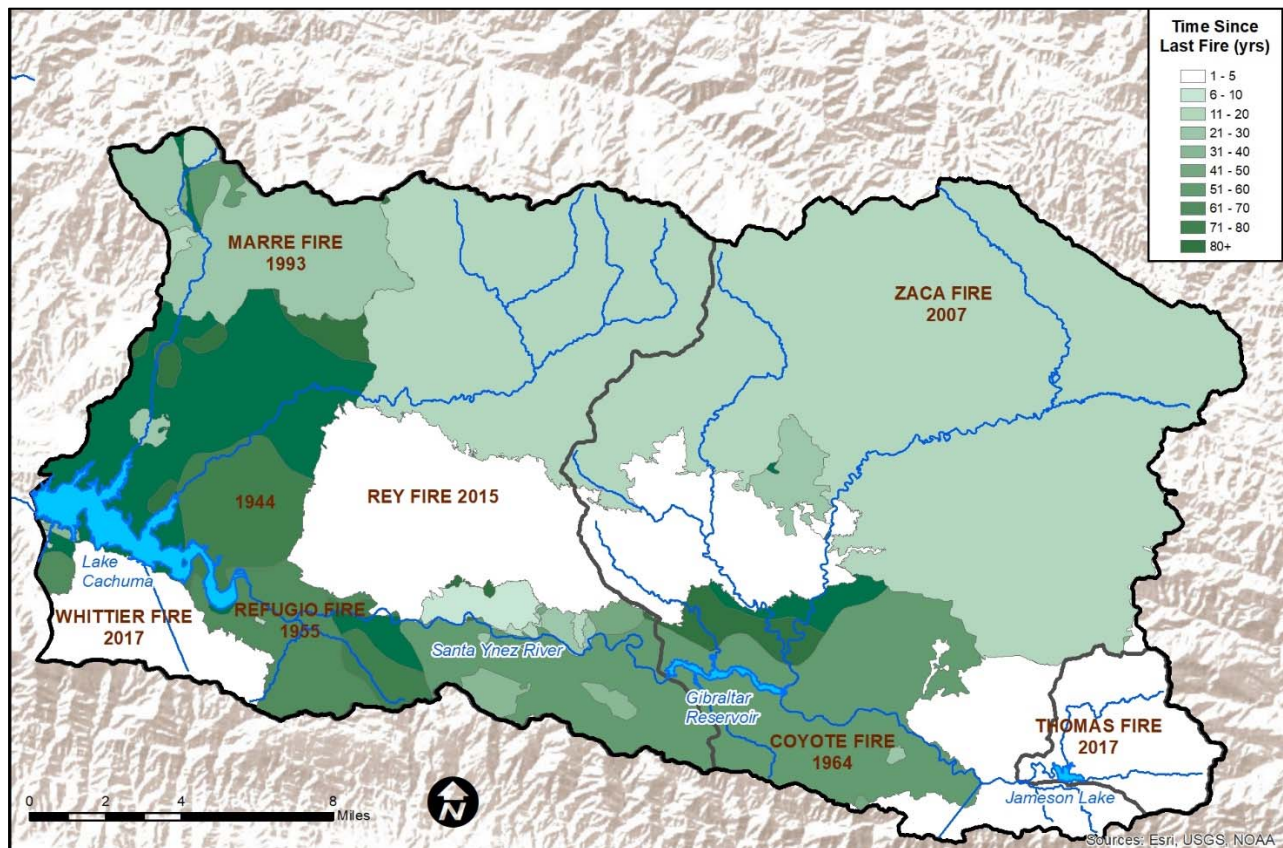


Figure 1. Time since last fire in the Lake Cachuma watershed

During the summer and fall period, the concern is for large catastrophic fires to burn uncontrolled through the watershed. Portions of the north slopes of the Santa Ynez Mountain range between the east edge of the Whittier Fire and west edge of the Thomas Fire have not burned since the Coyote Fire in 1964 and the Refugio Fire in 1955. This area has high erosion potential due to the steepness, soils, and orographic effect in increasing rainfall intensities based on Woodward & Curran preliminary estimates of soil erosion potential.

SYCAMORE CANYON SLOPE STABILIZATION PROJECT

Construction began on the Sycamore Slope Stabilization Project in July. The conduit was exposed in the February 2017 storms on the steep hill slope. The project will protect the conduit by improving the drainage and stabilizing the slope. All three reinforced caisson walls were completed with no impact to the conduit. The project is on track to be finished by the end of September.

SAN JOSE CREEK SOUTH COAST CONDUIT STREAM PROTECTION MEASURES

The South Coast Conduit is exposed at the bottom of San Jose Creek. The surface of the pipe has been impacted by stream erosion resulting in the loss of concrete material and aggregate exposure. At the crossing, the South Coast Conduit measures 48” in diameter and is the highest pressure zone in the system. The designs for stream protection measures have been completed and include a structural re-enforcement to repair and protect the pipe and the installation of a pool-riffle sequence with the South Coast Conduit incorporated into the riffle. COMB visited the site with five contractors and will receive cost proposals for the work on September 25th. A permit application has been submitted to the Army Corps of Engineers. The project implementation time table under the permit will be compressed as the necessity to protect the conduit before the winter storm season arrives is significant.

INFRASTRUCTURE IMPROVEMENT PLAN PROJECT STATUS

Table 1 provides a summary of the FY 2019-20 Infrastructure Improvement Projects. COMB staff is preparing the draft of the 2021-2025 Infrastrucutre Improvement Plan.

Table 1. Infrastructure Improvement Projects Status

Infrastructure Improvement Projects	Status / Phase	Complexity / Challenges	Estimated Completion Date
Infrastructure Improvement Projects			
Sycamore Canyon Slope Stabilization	Construction activities began in early July. All three reinforced caisson walls were completed successfully. Project on-track to be completed by end of September.	February 2017 storms exposed the South Coast Conduit on a steep slope in the Sycamore Canyon area. Project designed to stabilize slope and improve drainage to protect the SCC.	End of September 2019
San Jose Creek SCC Stream Protection Measures	Designs completed. Cost proposals have been requested from five contractors with relevant project experience. Permit application submitted.	South Coast Conduit is exposed in San Jose Creek and requires stream protection measures to prevent damage and water supply disruption. Project will be completion will depend on permit approval.	Construction planned for Fall 2019
SCC Structure Rehabilitation (AVAR/BO)	Contract in place and structures were field measured by contractor to order parts. Construction work planned for January 2019.	Shutdown needs to be closely coordinated with MWD. COMB staff met with MWD in September 6 to discuss details for shutdown.	Schedule D and E planned for Winter 2019-2020.
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. Draft engineering plans are completed. Valve has been specified and quotes have been requested from valve manufacturers.	Additional line valves in the SCC could better facilitate planned maintenance activities.	Construction planned for Winter 2019-20.
SCC Structure Rehabilitation : Lower Reach Laterals	Draft designs have been completed and under review. Project included a high resolution aerial flight and structure survey which improves accuracy of conduit location.	In order to facilitate shutdowns on the Lower Reach of the SCC, lateral valves need replacement.	Construction planned for Spring/Summer 2019
Special Projects			
Emergency Pumping Facility Project	Key components of the barge are currently being stored under contract. Secured Pipeline feasibility study completed in the end of June. Materials are being prepared for the environmental review process.	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	Contractor is proceeding with Phase 2 of the study to develop solutions and a monitoring program. Supplemental sampling for algae and nutrients is on-going this summer.	Recent wildfires and subsequent storm events have resulted in decreased water quality and increased sedimentation into Lake Cachuma.	June 2020

MONTHLY REPORT OF OPERATIONS – AUGUST 2019

The total flow from Lake Cachuma into the Tecolote Tunnel for August was 1,936.8 acre-feet, for an average daily flow of 63 acre-feet. Lake elevation was 738.42 feet at the beginning of August and 737.07 feet at the end of August. Storage decreased by 3,644 acre-feet. CCWA wheeled 0 acre-feet of water to Cachuma Project facilities. The City of Santa Barbara wheeled 467 acre-feet of water from the Gibraltar Penstock through Lauro Reservoir. The Hilton Creek Watering System was not operational in the month of July, due to issues with the intake pipeline. Water was delivered to Hilton Creek via dam outlet works through the emergency backup system, which prevents the delivery of CCWA water into the lake.

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 Carpinteria 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.

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

Routine operation and maintenance completed during the month of July were as follows:

- Conducted seven flow changes at the North Portal during the month of August (1 gate chamber, 6 surface)
- Responded to 176 USA Dig alerts
- Reviewed one project for right of way conflicts
- Performed weekly inspections of major facilities, safety meetings, rodent bait (all reservoirs), toe drain and piezometer reads at Ortega (L23)
- Performed dam inspection and instrumentation reports (all reservoirs)
- Performed equipment and yard maintenance
- Read anodes and rectifier data

In addition regular activities described above, Operations staff performed the following:

- Monitored the Sycamore Slope Stabilization Project. All three reinforced caisson walls have been completed.
- Completed structure maintenance on lower reach and started structure maintenance on upper reach with 20 structures completed.
- Monitored Hotline for power pole replacement near the South Coast Conduit.
- Assisted with supplemental nutrient and algal sampling for the Lake Cachuma Water Quality and Sediment Management Study.

- Performed maintenance on the Lauro Control Station Valve Pit including cleaning and re-coating valves and piping.
- Attended JPIA training for sexual harassment.
- Right of way cleared around South Portal Road and Glen Anne Reservoir.

Upper Reach Structure Maintenance



Inside of blowoff structure before cleaning



Inside of blowoff structure after cleaning

Sycamore Canyon Slope Stabilization Project



Installation of rebar cages prior to pouring concrete for reinforced caissons



Completed 70-foot long reinforced caisson wall

Lauro Valve Pit Maintenance



Lauro Control Station before painting



Lauro Control Station after painting

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CACHUMA OPERATION AND MAINTENANCE BOARD

BOARD MEMORANDUM

DATE: September 23, 2019
TO: Janet Gingras, General Manager
FROM: Tim Robinson, Fisheries Division Manager
RE: MONTHLY FISHERIES DIVISION REPORT

HIGHLIGHTS:

- USBR continues to deliver approximately 2.7 cfs of Lake Cachuma water to Hilton Creek by gravity through the Hilton Creek Emergency Backup System (HCEBS) which is sustaining the *O. mykiss* population in the creek.
- USBR continues to work on the Hilton Creek Watering System (HCWS). Needed repairs to the system have been ordered and no specific installation date has been determined.

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:

Thermograph Network: The thermograph network is deployed at the beginning of April and picked up at the end of December to record water temperatures at all designated locations within the LSYR mainstem and several tributaries. The thermograph network has been deployed in the LSYR mainstem and its tributaries. Thermographs are downloaded monthly and the results are summarized in the Annual Monitoring Report.

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.

Snorkel surveys: Snorkel surveys for *O. mykiss* and non-native fish are conducted three times a year. The second survey at the end of the summer has been initiated. The fall survey will start in October. The results are presented in the annual monitoring report.

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

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 has submitted all permit applications and designs for review by the County and NMFS-CDFW. Project construction is tentatively scheduled for this fall pending final design approval and obtaining all necessary permits. A separate Board memo is provided that discusses the project status and financials.

Hilton Creek Watering System (HCWS) and Emergency Backup System (HCEBS) 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 continues to consider repair and improvement options for the HCWS. Although USBR states that the identified parts for the repair of the HCWS pumping barge have been ordered, no on-the-ground work has been done.

Currently USBR is delivering water to Hilton Creek through the HCEBS by gravity flow to the Upper Release Point.

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 in previous reports.

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		18,039	
Total:	9,184	26,978	244
* Originally was 9,200 af, 8,942 af in 2008 and 9,184 af in 2013.			
** Values as of 8/31/19.			
*** 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: Outreach continues with Quiota Creek and Salsipuedes Creek watershed landowners, interested parties within the Santa Ynez Valley, and the County on a variety of fisheries related issues.

Consultant Activity Summary:

HDR Fisheries Design Center (Mike Garelo) – Design and reporting work for the Quiota Creek Crossing 8 Project.

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CACHUMA OPERATION & MAINTENANCE BOARD

BOARD MEMORANDUM

Date:	September 23, 2019
Submitted by:	Tim Robinson and Scott Volan
Approved by:	Janet Gingras

SUBJECT: **Progress Report on the Lake Cachuma Oak Tree Restoration Program**

RECOMMENDATION:

For Board information only.

SUMMARY:

Maintenance

This memorandum on the Lake Cachuma Oak Tree Restoration Program reflects maintenance completed since January, 2019 to the present (1/1/19 – 9/23/19, 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. A Committee meeting will be scheduled shortly after the August Board meeting to review the annual inventory, financials, and recommendations for the year.

Table 1: Cachuma Oak Tree Program completed tasks since January, 2019.

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

Irrigation with 2 watering teams continues to be the priority during the summer dry season. Since the last Board meeting, another round of watering has been completed on the Year 7, 8 and 9 trees. The Year 10 trees are next in line for irrigation which will occur towards the end of the month. While teams are watering, additional staff is mulching Year 8 and Year 9 oak trees at the Santa Barbara County Park and at Bradbury Dam (Exhibit 1).

The large, native oak trees in the Santa Ynez Valley are starting to produce acorns and staff is preparing to collect both Coast Live Oak and Valley Oak acorns for propagation at Manzanita Nursery. Acorn collecting will begin in earnest towards the end of the month and will be complete by October.

On August 29th, the Lake Cachuma Oak Tree Committee with additional participants from the Montecito Water District and Santa Barbara County Park Operations Manager Todd Stepien participated in a tour of the Oak Tree Restoration Program areas at Bradbury Dam, Lake Cachuma Santa Barbara County Park and Storke Flat.

LIST OF EXHIBITS:

Current Oak Tree Program photos



Exhibit 1: Lake Cachuma Oak Tree Restoration Program showing (a) mulch being spread on a tree, (b) freshly mulched trees near Bradbury Dam, (c) new mulch around a tree with grow tube, and (d) acorns on a Coast Live oak ready for harvest.

CACHUMA OPERATION AND MAINTENANCE BOARD

METERED USE REPORT FOR AUGUST 2019

LATERAL/ STATION	NAME	ACRE FEET METERED	LATERAL/ STATION	NAME	ACRE FEET METERED
CARPINTERIA WATER DISTRICT			GOLETA WATER DISTRICT		
Boundary Meter - East		412.95	18+62	G. WEST	160.92
Boundary Meter - West		(0.06)	78+00	Corona Del Mar FILTER Plant	893.95
			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)	0.00
			TOTAL		1,054.87
			MONTECITO WATER DISTRICT		
			260+79	BARKER PASS	58.26
			386+65	MWD YARD	111.31
			487+07	VALLEY CLUB	0.00
			499+65	E. VALLEY-ROMERO PUMP	57.39
			510+95	MWD PUMP (SWD)	14.38
			510+95	ORTEGA CONTROL	5.13
			526+43	ASEGRA RD	10.07
			555+80	CO. YARD	0.00
			583+00	LAMBERT RD	0.00
			599+27	TORO CANYON	2.55
				SWP CREDIT (Warren Act Contract)	0.00
			TOTAL		259.08
			CITY OF SANTA BARBARA		
			CATER	INFLOW	1455.70
			Gibraltar	PENSTOCK	(466.64)
			CATER	SO. FLOW	(842.39)
			Sheffield	SHEF.LIFT	170.08
				SWP (Warren Act)	0.00
				La Cumbre Mutual SWP (Warren Act)	0.00
			TOTAL		316.75
			SANTA YNEZ RIVER WATER CONSERVATION DISTRICT, ID#1		
				COUNTY PARK, ETC	3.03
			TOTAL		3.03
			BREAKDOWN OF DELIVERIES BY TYPE:		
				STATE WATER DELIVERED TO LAKE	0.00
				STATE WATER TO SOUTH COAST (including from storage)	0.00
			METERED DIVERSION		2,046.62
SWP CREDIT (Warren Act Contract) 0.00					
TOTAL 412.89					
Note: Meter reads were taken on: 8/30/2019					

WATER YEAR 18-19 CACHUMA PROJECT ALLOCATION

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

(All in rounded Acre Feet)

CACHUMA PROJECT		
WATER PRODUCTION:	MONTH	WYTD
Cachuma Lake (Tec. Diversion)	1,869.9	11,636.5
Tecolote Tunnel Infiltration	69.2	879.8
Cachuma Lake (County Park)	3.0	20.8
Subtotal - Water Production	1,942.1	12,537.1
WATER DELIVERIES:		
State Water Diversion	0.0	5,033.8
Cachuma Diversion	2,046.6	7,530.2
Storage gain/(loss)	(84.7)	(18.8)
Subtotal - Water Deliveries	1,961.9	12,545.2
Total Water Production	1,942.1	12,537.1
Total Water Deliveries	1,961.9	12,545.2
Difference = Apparent Water Loss	(19.8)	(8.1)
% Apparent Water Loss	-1.02%	-0.06%

SCC APPARENT WATER LOSS ALLOCATION (AWL) ⁽⁴⁾

	GWD	SB CITY	MWD	CVWD	TOTAL
CURRENT MONTH CHARGE / (ADJUSTMENT) ⁽³⁾					
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) ⁽³⁾	0.4	1.2	1.3	(0.8)	2.1
Total AWL Not Charged (WYTD) ⁽³⁾					(10.3)
Total AWL Incurred (WYTD)					(8.2)

CACHUMA PROJECT WATER CHARGE

	GWD	SB CITY	MWD	CVWD	SYRID #1	TOTAL
CURRENT MONTH						
Water Usage						
M&I	770.1	316.8	237.6	177.2	3.0	1,504.6
Agricultural	284.8	0.0	21.5	235.7	N/A	542.0
Subtotal Project Water Use	1,054.9	316.8	259.1	412.9	3.0	2,046.6
(+) Apparent Water Loss	0.0	0.0	0.0	0.0	N/A	0.0
(+) Evaporative Loss ⁽⁴⁾	0.2	73.0	16.2	0.9	0.2	90.4
Total Project Water Charge	1,055.0	389.8	275.3	413.7	3.3	2,137.0
WATER YEAR-TO-DATE						
Water Usage						
M&I	3,554.6	798.3	462.6	715.7	20.8	5,551.8
Agricultural	1,064.6	0.0	41.6	787.7	N/A	1,894.0
Subtotal Project Water Use	4,619.2	798.3	504.2	1,503.4	20.8	7,445.8
(+) Apparent Water Loss	(0.3)	(2.1)	0.0	0.0	N/A	(2.3)
(+) Evaporative Loss ⁽⁴⁾	181.5	586.1	151.8	71.7	2.6	993.7
Total Project Water Charge (*)	4,800.5	1,382.3	656.0	1,575.1	23.3	8,437.2

(*) 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 **AUGUST 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)	3,771.3	1,382.3	656.0	1,305.2	23.3	7,138.1
Balance Carryover Water	0.0	5,881.9	1,208.1	0.0	17.1	7,107.1
Current Year Allocation ⁽⁵⁾	9,322.0	8,277.0	2,651.0	2,813.0	2,651.0	25,714.0
(-) Balance of Project Water Charge (WYTD)	1,029.2	0.0	0.0	269.9	0.0	1,299.1
Net Allocation Available Before Adjustments	8,292.8	8,277.0	2,651.0	2,543.1	2,651.0	24,414.9
Adjustments to Net Allocation (WYTD)						
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 ⁽⁶⁾	626.0	417.0	416.0	278.0	(1,737.0)	0.0
Transfers/Adjustment ^{(7),(8)}	100.0	(305.0)	0.0	0.0	0.0	(205.0)
Transfers/Adjustment ⁽¹⁰⁾	0.0	(82.0)	0.0	0.0	0.0	(82.0)
Balance Current Year Allocation	9,018.8	8,307.0	3,067.0	2,821.1	914.0	24,127.9
Total Cachuma Project Water Available	9,018.8	14,188.9	4,275.1	2,821.1	931.1	31,235.0

Footnotes

- (1) Water Year = October 1 through September 30; WYTD = Water Year to Date
- (2) Includes Lauro and Ortega Reservoirs only.
- (3) 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
- (4) Per USBR, evaporation is applied to Cachuma Carryover and SWP water through standard contract formula effective April 1, 2017.
- (5) 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.
- (6) Per SWP Exchange Agrmt GWD received 188 AF; City of SB received 125 AF; MWD received 125 AF and CVWD received 83 AF from ID#1 in August 2019.
- (7) Transfer per Contract for Exchange Water with Thomas B. Bishop Company and GWD (100 AF) - April 2019
- (8) Transfer per Santa Ynez Exchange Agreement with City of SB and La Cumbre Mutual Water Agency (49.39 AF) in August 2019.
- (9) Memo only - State Water Deliveries to Lake Cachuma for August 2019 was zero.
- (10) Adjustment to the City of Santa Barbara for April (39 AF) and May (43 AF) La Cumbre Exchange, credit given in error - June 2019

CACHUMA OPERATION AND MAINTENANCE BOARD
WATER STORAGE REPORT

MONTH: **AUGUST 2019**

GLEN ANNIE RESERVOIR ⁽¹⁾

Capacity at 385' elevation:	335	AF
Capacity at sill of intake at 334' elevation:	21	AF
Stage of Reservoir Elevation	335.00	Feet
Water in Storage	26.79	AF

LAURO RESERVOIR

Capacity at 549' elevation:	503	AF
Capacity at top of intake screen, 520' elevation:	106.05	AF
Stage of Reservoir Elevation	542.60	Feet
Water in Storage	385.15	AF

ORTEGA RESERVOIR

Capacity at 460' elevation:	65	AF
Capacity at outlet at elevation 440':	0	AF
Stage of Reservoir Elevation	448.40	Feet
Water in Storage	24.00	AF

CARPINTERIA RESERVOIR

Capacity at 384' elevation:	45	AF
Capacity at outlet elevation 362':	0	AF
Stage of Reservoir Elevation	378.70	Feet
Water in Storage	31.92	AF

TOTAL STORAGE IN RESERVOIRS ⁽¹⁾

Change in Storage	441.07	AF
	(81.01)	AF

CACHUMA RESERVOIR

Capacity at 750' elevation:	184,121	AF
Capacity at sill of tunnel 660' elevation:	24,281	AF
Stage of Reservoir Elevation	737.07	Feet
Water in Storage	148,083	AF
Surface Area	2,560	
Evaporation	1,500.3	AF
Inflow	211.2	AF
Downstream Release WR8918	0.0	AF
Fish Release (Hilton Creek)	178.6	AF
Outlet	236.5	AF
Spill/Seismic Release	0	AF
State Water Project Water	0	AF
Change in Storage	-3,644	AF
Tecolote Diversion	1,936.8	AF

Rainfall:	Month:	0.00	Season:	23.78	Percent of Normal:	0%
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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. 08/31/19

Month	Carryover Balance Prior Yr	Approved Allocation Curr Yr	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	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	0.0	6.2	6.2	14.8	6.2	21.0	0.0	21.0	0.0	0.0	0.0
Apr			379.5	56.7	436.2	20.0	436.2	456.3	397.0	59.3	0.0	0.0	0.0
May			405.8	95.2	501.0	17.4	501.0	518.3	419.8	98.5	0.0	0.0	0.0
Jun			711.3	177.8	889.1	14.9	889.1	904.0	723.2	180.8	0.0	0.0	0.0
Jul			717.5	252.1	969.6	6.3	969.6	975.9	722.2	253.7	0.0	0.0	0.0
Aug			770.1	284.8	1,054.9	0.2	25.7	25.9	18.9	7.0	751.3	277.9	1,029.2
Sep			-	-	-	-	-	-	-	-	-	-	-
Total	3,771.3	9,322.0	3,554.4	1,064.6	4,619.0	181.5	3,589.8	3,771.3	2,909.0	862.3	751.3	277.9	1029.2

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	371.7	(371.7)	-	-
Aug	18.9	(18.9)	-	-
Sep	-	-	-	-

Month	SCHEDULE AND REVISIONS			SCHEDULE AND REVISIONS		
	Total	Allocation		Allocation		Total
		M & I	Agr	M & I	Agr	
Begin Bal	3,771.3	2,518.4	1,252.9	1,254.0	610.0	1,864.0
Mid-Year Allocation				5,017.3	2,440.7	7,458.0
Bishop Ranch Exch (+100AF) + ID# 1 Exch (+59AF)				135.5	23.5	159.0
ID# 1 Exch (+64AF)				36.5	27.5	64.0
ID# 1 Exch (+134AF)				64.3	69.7	134.0
ID# 1 Exch (+181AF)				65.7	115.3	181.0
ID# 1 Exch (+188AF)				84.4	103.6	188.0
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	2,424.1	1,493.5	930.6	6,406.8	3,074.2	9,481.0
May	1,905.8	1,073.6	832.1	6,443.3	3,101.7	9,545.0
Jun	1,001.8	350.4	651.3	6,507.6	3,171.4	9,679.0
Jul	25.9	0.0	25.9	6,573.3	3,286.7	9,860.0
Aug	0.0	0.0	0.0	5,906.5	3,112.3	9,018.8
Sep						

TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) **9,018.8**

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. 08/31/19

Month	Carryover Balance Prior Yr	Approved Allocation Curr Yr
Oct	7,264.2	1,655.5
Nov		
Dec		
Jan		
Feb		
Mar		6,621.5
Apr		
May		
Jun		
Jul		
Aug		
Sep		
Total	7,264.2	8,277.0

TOTAL WATER USED			WATER USE CHARGED			WATER USE CHARGED		
Acre-feet			Allocation			Allocation		
M & I	Agr	Total	Evap	Used	Total	M & I	-----	Total
93.3	0.0	93.3	89.8	93.3	183.1	183.1	0.0	0.0
235.3	0.0	235.3	65.1	235.3	300.4	300.4	0.0	0.0
0.0	0.0	0.0	31.2	0.0	31.2	31.2	0.0	0.0
0.0	0.0	0.0	27.0	0.0	27.0	27.0	0.0	0.0
0.0	0.0	0.0	19.0	0.0	19.0	19.0	0.0	0.0
0.0	0.0	0.0	34.1	0.0	34.1	34.1	0.0	0.0
26.5	0.0	26.5	50.1	26.5	76.6	76.6	0.0	0.0
12.2	0.0	12.2	52.6	12.2	64.8	64.8	0.0	0.0
35.5	0.0	35.5	66.2	35.5	101.7	101.7	0.0	0.0
76.7	0.0	76.7	77.9	76.7	154.6	154.6	0.0	0.0
316.8	0.0	316.8	73.0	316.8	389.8	389.8	0.0	0.0
-	-	-	-	-	-	-	-	-
796.2	-	796.2	586.1	796.2	1,382.3	1,382.3	-	-

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

SCHEDULE AND REVISIONS			SCHEDULE AND REVISIONS		
Month	Allocation		Allocation		Total
	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
LCMWD Trsfr (-39AF) + ID# 1 Exch (+39AF)			-	-	-
LCMWD Trsfr (-43AF) + ID# 1 Exch (+43AF)			-	-	-
LCMWD Trsfr (-75AF) + ID# 1 Exch (+89AF) + Apr/May corr. (-82 AF)			(68.0)	(68.0)	(68.0)
LCMWD Trsfr (-98.62AF) + ID# 1 Exch (+121AF)			22.4	22.4	22.4
LCMWD Trsfr (-49.39AF) + ID# 1 Exch (+125AF)			75.6	75.6	75.6
					-

BALANCE - CARRYOVER WATER			BALANCE - CURR YR ALLOC		
Month	Allocation		Allocation		Total
	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	6,592.7	6,592.7	8,277.0	-	8,277.0
May	6,527.9	6,527.9	8,277.0	-	8,277.0
Jun	6,426.2	6,426.2	8,209.0	-	8,209.0
Jul	6,271.6	6,271.6	8,231.4	-	8,231.4
Aug	5,881.9	5,881.9	8,307.0	-	8,307.0
Sep					

TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) **14,188.9**

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. 08/31/19

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
107.6	120.2	227.8	8.6	227.8	236.5	111.7	124.8	0.0
134.3	130.1	264.4	7.1	264.4	271.5	137.9	133.6	0.0
150.1	139.7	289.8	6.2	289.8	296.0	153.3	142.6	0.0
146.4	162.1	308.5	3.7	308.5	312.2	148.2	164.0	0.0
177.2	235.7	412.9	0.9	143.0	143.8	61.7	82.1	269.9
-	-	-	-	-	-	-	-	-
715.7	787.7	1,503.4	71.7	1,233.5	1,305.2	633.6	671.6	269.9

CONVERSIONS (M&I AND AG SPLIT)			
CARRYOVER WATER		CURR YR ALLOCATION	
M & I	Agr	M & I	Agr
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
36.3	(36.3)	-	-
(0.0)	0.0	-	-

Month
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep

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
ID# 1 Exch (+26AF)				15.6	10.4	26.0
ID# 1 Exch (+28AF)				16.0	12.0	28.0
ID# 1 Exch (+60AF)				28.8	31.2	60.0
ID# 1 Exch (+81AF)				29.4	51.6	81.0
ID# 1 Exch (+83AF)				37.3	45.7	83.0
						-

Month
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep

BALANCE - CARRYOVER WATER			BALANCE - CURR YR ALLOC			
	Total	Allocation		Allocation		Total
		M & I	Agr	M & I	Agr	
1,289.0	589.9	699.1	258.5	304.5	563.0	
1,276.9	584.4	692.6	258.5	304.5	563.0	
1,271.0	581.7	689.4	258.5	304.5	563.0	
1,265.9	579.3	686.6	258.5	304.5	563.0	
1,262.4	577.7	684.7	258.5	304.5	563.0	
1,259.9	576.6	683.4	1,291.6	1,521.4	2,813.0	
1,023.5	464.9	558.6	1,307.2	1,531.8	2,839.0	
752.0	327.0	425.0	1,323.2	1,543.8	2,867.0	
456.0	173.7	282.4	1,352.0	1,575.0	2,927.0	
143.8	25.5	118.4	1,381.4	1,626.6	3,008.0	
0.0	0.0	(0.0)	1,302.9	1,518.2	2,821.1	

TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) **2,821.1**

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. 08/31/19

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

TOTAL WATER USED			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	23.2	0.0	23.2	18.3	4.9	0.0
0.0	0.0	0.0	17.2	0.0	17.2	13.6	3.6	0.0
0.0	0.0	0.0	8.4	0.0	8.4	6.6	1.8	0.0
0.0	0.0	0.0	7.3	0.0	7.3	5.7	1.5	0.0
0.0	0.0	0.0	5.1	0.0	5.1	4.0	1.1	0.0
0.0	0.0	0.0	9.2	0.0	9.2	7.3	1.9	0.0
0.0	0.0	0.0	13.5	0.0	13.5	10.7	2.8	0.0
0.0	0.0	0.0	14.2	0.0	14.2	11.2	3.0	0.0
18.5	1.9	20.4	17.9	20.4	38.3	34.7	3.6	0.0
206.5	18.2	224.7	19.7	224.7	244.4	224.6	19.7	0.0
237.6	21.5	259.1	16.2	259.1	275.3	252.4	16.2	0.0
-	-	-	-	-	-	-	-	-
462.6	41.6	504.2	151.8	504.2	656.0	589.2	60.0	-

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	
Begin Bal	1,864.1	1,473.0	391.1	493.0	37.0	530.0
Mid-Year Allocation				1,972.9	148.1	2,121.0
ID# 1 Exch (+39AF)				23.4	15.6	39.0
ID# 1 Exch (+42AF)				24.0	18.0	42.0
ID# 1 Exch (+89AF)				42.7	46.3	89.0
ID# 1 Exch (+121AF)				43.9	77.1	121.0
ID# 1 Exch (+125AF)				56.1	68.9	125.0
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	1,780.2	1,406.7	373.5	2,489.4	200.6	2,690.0
May	1,766.0	1,395.5	370.5	2,513.3	218.7	2,732.0
Jun	1,727.7	1,360.8	367.0	2,556.1	264.9	2,821.0
Jul	1,483.4	1,136.2	347.3	2,600.0	342.0	2,942.0
Aug	1,208.1	883.8	331.1	2,656.2	410.8	3,067.0
Sep	-	-	-	-	-	-

TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) **4,275.1**

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. 08/31/19

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			
Acre-feet			Allocation				Allocation			
M & I	Agr	Total	Evap	Used	Total	M & I	Agr	M & I	Agr	Total
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
1.9	0.0	1.9	0.2	1.9	2.1	2.1	0.0	0.0	0.0	0.0
1.9	0.0	1.9	0.2	1.9	2.1	2.1	0.0	0.0	0.0	0.0
2.1	0.0	2.1	0.3	2.1	2.4	2.4	0.0	0.0	0.0	0.0
3.0	0.0	3.0	0.3	3.0	3.2	3.2	0.0	0.0	0.0	0.0
3.0	0.0	3.0	0.2	3.0	3.2	3.2	0.0	0.0	0.0	0.0
-	-	-	-	-	-	-	-	-	-	-
20.7	0.0	20.7	2.6	20.7	23.3	23.3	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
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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
ID #1 Exchange (-163AF)				(98.0)	(65.0)	(163.0)
ID #1 Exchange (-177AF)				(101.0)	(76.0)	(177.0)
ID #1 Exchange (-372AF)				(178.6)	(193.4)	(372.0)
ID #1 Exchange (-504AF)				(183.0)	(321.0)	(504.0)
ID #1 Exchange (-521AF)				(234.0)	(287.0)	(521.0)
				-	-	-

*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	1.9	28.1	-	777.3	1,710.7	2,488.0
May	1.9	26.0	-	676.3	1,634.7	2,311.0
Jun	2.1	23.6	-	497.7	1,441.3	1,939.0
Jul	3.0	20.3	-	314.7	1,120.3	1,435.0
Aug	3.0	17.1	-	80.7	833.3	914.0
Sep						

TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) 931.1

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. 08/31/19

Month	CARRYOVER WATER		CURRENT YEAR ALLOCATION											
	Carryover Balance Prior Yr	Approved Allocation Curr Yr	TOTAL WATER USED				WATER USE CHARGED				WATER USE CHARGED		Total	
			Acre-feet			Total	Evap	Div	Allocation		Allocation			
			Use %	M & I	Agr				M & I	Agr	M & I	Agr		
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			0.0	515.5	176.9	692.4	92.5	692.4	784.9	598.0	186.9	0.0	0.0	0.0
May			0.0	554.2	225.3	779.5	91.5	779.5	870.9	635.9	235.0	0.0	0.0	0.0
Jun			0.1	917.6	319.4	1,236.9	105.3	1,236.9	1,342.3	1,015.3	327.0	0.0	0.0	0.0
Jul			0.1	1,150.0	432.4	1,582.4	107.9	1,582.4	1,690.3	1,252.8	437.4	0.0	0.0	0.0
Aug			0.1	1,504.5	542.0	2,046.6	90.4	747.5	837.9	726.0	105.3	867.1	432.0	1,299.1
Sep			-	-	-	-	-	-	-	-	-	-	-	-
Total	14,245.2	25,714.0	0.4	5,549.5	1,894.0	7,443.4	993.7	6,144.3	7,138.1	5,537.3	1,594.0	867.1	432.0	1299.1

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	371.7	(371.7)	-	-
Aug	55.1	(55.1)	-	-
Sep	(0.0)	0.0	-	-

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	-	-	-	-	-	-	
Mar	Mid-Year Allocation	-	-	15,345.1	5,226.4	20,571.5	
Apr	-	-	-	76.6	(15.6)	61.0	
May	-	-	-	(24.5)	(18.5)	(43.00)	
Jun	-	-	-	(110.7)	(46.3)	(157.0)	
Jul	-	-	-	(21.6)	(77.1)	(98.6)	
Aug	-	-	-	19.5	(68.9)	(49.4)	
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	1.9	11,848.5	9,985.9	1,862.7	19,257.7	6,517.3	25,775.0
May	1.9	10,977.6	9,350.0	1,627.6	19,233.2	6,498.8	25,732.0
Jun	2.1	9,635.3	8,334.7	1,300.6	19,122.4	6,452.6	25,575.0
Jul	3.0	7,945.0	7,453.7	491.5	19,100.9	6,375.5	25,476.4
Aug	3.0	7,107.1	6,782.8	331.1	18,253.2	5,874.7	24,127.9
Sep							

TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) **31,235.0**

CACHUMA DAILY OPERATIONS

Month & Year: **Septembe 2019**
 Time of Observations: **0830** Evaporation Pan Factor: **76%**

Day	Beginning Storage: 148,083			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	737.03	148,006	(77)	2,559	-		0.320	51.9	-		70.8	5.4		8.1		59.2
2	736.98	147,878	(128)	2,557	-		0.260	42.1	-		66.5	5.4		7.2		(6.9)
3	736.94	147,775	(103)	2,556	-		0.310	50.2	-		68.7	5.3		7.2		28.4
4	736.89	147,647	(128)	2,554	-		0.280	45.3	-		80.1	5.3		8.2		10.9
5	736.82	147,467	(180)	2,552	-		0.370	59.8	-		106.1	5.3		7.2		(1.6)
6	736.76	147,313	(154)	2,549	-		0.270	43.6	-		113.2	5.3		8.2		16.3
7	736.70	147,159	(154)	2,547	-		0.300	48.4	-		101.3	5.3		7.2		8.2
8	736.63	146,979	(180)	2,545	-		0.270	43.5	-		102.5	5.3		8.2		(20.5)
9	736.57	146,827	(152)	2,543	-		0.220	35.4	-		63.5	5.3		7.3		(40.5)
10	736.53	146,726	(101)	2,541	-		0.200	32.2	-		67.6	5.3		7.2		11.3
11	736.48	146,600	(126)	2,540	-		0.230	37.0	-		66.0	5.3		8.2		(9.5)
12	736.44	146,498	(102)	2,538	-		0.230	37.0	-		51.3	5.3		7.3		(1.1)
13	736.40	146,397	(101)	2,537	-		0.270	43.4	-		67.2	5.3		7.2		22.1
14	736.35	146,271	(126)	2,535	-		0.350	56.2	-		69.3	5.3		8.2		12.9
15	736.30	146,144	(127)	2,533	-		0.330	52.9	-		71.3	5.3		7.2		9.7
16	736.25	146,018	(126)	2,532	-		0.210	33.7	-		65.1	5.2		7.3		(14.7)
17	736.21	145,917	(101)	2,530	-		0.200	32.1	-		69.6	5.2		8.3		14.2
18	736.16	145,790	(127)	2,529	-		0.240	38.4	-		68.2	5.2		7.2		(8.0)
19	736.11	145,664	(126)	2,527	-		0.190	30.4	-		67.9	5.2		7.2		(15.3)
20																
21																
22																
23																
24																
25																
26																
27																
28																
29																
30																

TOTALS		-2419			-	-	5.050	813.4	-	-	-	1,436.1	100.4	-	144.1	-	75.1
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Park Usage Rain % Yr. Total



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



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

Cachuma Lake Recreation Area Launch Data -- August 2019		
Inspection Data		
Total Vessels entering Park	533	
Total Vessels launched	513	
Total Vessels Quarantined	20	
Returning with Boat Launch Tag	255	50%
New: Removed from Quarantine		
Kayak/Canoe: Inspected, launched	258	50%
4-stroke Engines		
2-strokes, w/CARB star ratings		
2-strokes, NO emissions ratings		
Quarantine Data		
Total Vessels Quarantined	20	
Quarantined 7 days	*	
Quarantined 14 days	*	
Quarantined 30 days	20	
Quarantine Cause		
Water on vessel*	*	
Debris on hull*	*	
Plug installed*	*	
From infected county	3	
Ballast tanks*	*	
Boat longer than 24 feet*	*	
Out-of-state	0	
Unspecified*	*	
Mandatory Quarantine All Untagged Boats	20	
Demographic Data		
Quarantined from infected county	3	
Quarantined from SB County	16	
Quarantined from uninfected co	1	

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: 2019.08.29; 9:00 a.m. to 11:00 a.m. PDT
 Method: 4 PVC/Cement Sampling Stations; 75 linear feet of line
 Surveyors: SBCO Parks Employees
 Lake elevation: Max feet: 753.00, current 737.29; Max acre-feet: 193,305, current: 148,673;
 Current capacity: 76.9%