

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

Monday, June 24, 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 May 9, 2019 Special Board Meeting
 - b. Minutes of May 20, 2019 Regular Board Meeting
 - c. Investment of Funds
 - Financial Reports
 - Investment Reports
 - d. Review of Paid Claims
- 4. VERBAL REPORTS FROM BOARD COMMITTEES**
Receive verbal information regarding the following committee meetings:
 - Fisheries Committee Meeting – June 17, 2019
- 5. FISCAL YEAR 2019-20 ELECTIONS AND APPOINTMENTS OF CACHUMA OPERATION AND MAINTENANCE BOARD**
Action: Elections for President and Vice-President by nomination and roll call vote of the Board:
 - a. Election of President
 - b. Election of Vice-PresidentAction: Appointment by motion and roll call vote of the Board for each appointment:
 - c. Appointment of ACWA/JPIA Representative and Alternate
 - d. Appointment of General Counsel
 - e. Appointment of Secretary of the Board
 - f. Appointment of Treasurer and Auditor-Controller

6. SCOPES OF WORK - FISHERIES DIVISION PROFESSIONAL CONSULTING SERVICES FOR FISCAL YEAR 2019-20

Action: Receive Scopes of Work and authorize execution of the corresponding Professional Services Agreements by motion and roll call vote of the Board

7. GENERAL MANAGER REPORT

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

- Administration
- Personnel
- U.S. Bureau of Reclamation

8. WATER RESOURCES ENGINEER / OPERATIONS DIVISION REPORT

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

- Climate Conditions
- Lake Water Quality and Sediment Management Study
- Infrastructure Improvement Project Status
- Report of Operations

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. MEETING SCHEDULE

- **July 22, 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.

THIS PAGE INTENTIONALLY LEFT BLANK

**MINUTES OF A SPECIAL MEETING
OF
CACHUMA OPERATION AND MAINTENANCE BOARD
held at
3301 Laurel Canyon Road, Santa Barbara, California 93105**

**Thursday, May 9, 2019
10:00 A.M.**

1. CALL TO ORDER, ROLL CALL

The meeting was called to order by President Holcombe at 10:03 AM.

Directors Present:

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

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	

2. PUBLIC COMMENT

There was no public comment

3. VERBAL REPORTS FROM BOARD COMMITTEES

- *Administrative Committee Meeting – April 25, 2019* – President Holcombe summarized the committee meeting, as provided in the committee agenda, noting that the main focus of the committee meeting is the purpose behind the now convened special Board meeting.

4. COMB DRAFT FISCAL YEAR 2019-20 OPERATING BUDGET

Mr. Lyons presented the Draft Fiscal Year 2019-20 Operating Budget to the Board. He began his presentation with the Budget Overview and Process. Mr. Lyons highlighted the projected COMB Managed Revenues for FY 2019-20. He further provided detail for projected expenditures, by Division, as well as explanations for any variances from the prior fiscal year approved budget. Mr. Degner presented the budgets for the Infrastructure Improvement Projects. Additionally, Mr. Robinson presented the budgets for the Habitat Improvement Projects. Questions were fielded from the Board. Following Board discussion and recommendations, the Board requested that the final budget, incorporating any recommendations, be presented, through a resolution, at the May 20th regularly scheduled Board meeting.

5. DIRECTORS' REQUESTS FOR AGENDA ITEMS FOR FUTURE MEETING

There were no requests from the directors.

6. MEETING SCHEDULE

- **May 20, 2019 Regular Board Meeting at 1:00 P.M., COMB Office**
- **Board Packages Available on COMB Website**
www.cachuma-board.org

7. COMB ADJOURNMENT

There being no further business, the meeting was adjourned at 11:09 AM.

Respectfully submitted,

Janet Gingras, Secretary of the Board

APPROVED:

	<i>Approved</i>
√	<i>Unapproved</i>

Polly Holcombe, President of the Board

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

3301 Laurel Canyon Road, Santa Barbara, CA 93105

**Monday, May 20, 2019
1:00 PM**

1. CALL TO ORDER, ROLL CALL

The meeting was called to order by Vice-President Hanson at 1:00 PM.

Directors Present:

Lauren Hanson, Goleta Water District
Kristen Sneddon, City of Santa Barbara
Cori Hayman, Montecito Water District
Case Van Wingerden, Carpinteria Valley Water District

General Counsel Present:

William Carter, Musick, Peeler & Garrett, LLP

Staff Present:

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

Others Present:

Farfalla Borah, Goleta Water District	Fray Crease, SB Water Agency
---------------------------------------	------------------------------

2. PUBLIC COMMENT

There was no public comment.

3. CONSENT AGENDA

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

The Consent Agenda was divided into two motions. Vice-President Hanson presented items 3b. and 3c. of the Consent Agenda for a motion. Director Sneddon moved to approve items 3b. and 3c. of the Consent Agenda. Seconded by Director Hayman, the motion carried unanimously with a vote of six in favor.

Ayes: Sneddon, Hayman, Van Wingerden, Hanson

Nays:

Absent:

Abstain:

Vice-President Hanson called for a motion to approve item 3a. of the Consent Agenda. So moved by Director Sneddon and seconded by Director Hayman, the motion carried with a vote of five in favor and one abstention.

Ayes: Sneddon, Hayman, Hanson

Nays:

Absent:

Abstain: Van Wingerden

4. **VERBAL REPORTS FROM BOARD COMMITTEES**

- *Fisheries Committee Meeting – May 10, 2019* – Vice-President Hanson presented the Fisheries Committee items as provided in the agenda, adding that the Quiota Creek Crossing 8 matter is presented later for Board approval.
- *Operations Committee Meeting – May 13, 2019* – Director Sneddon presented the Operations Committee items as provided in the agenda, noting that most will be discussed separately within staff reports.

5. **FINANCIAL REVIEW - 3rd QUARTER FISCAL YEAR 2018-19**

Mr. Lyons presented the financial review of the third quarter of Fiscal Year 2018-19 to the Board for receipt and filing. He highlighted total revenues and their sources as well as expenditures accounted for by division. Mr. Lyons also reviewed variances from budget, generated by timing differences or unusual expenditures.

6. **RESOLUTION NO. 685 – COMB FISCAL YEAR 2019-20 OPERATING BUDGET**

Ms. Gingras presented the final Operating Budget for Fiscal Year 2019-20 for Board approval and adoption. She noted revisions to the final budget resulting from the Board's Budget Workshop. Ms. Gingras fielded questions from the Board. After discussion, Vice-President Hanson called for a motion to approve and adopt the COMB Fiscal Year 2019-20 Operating Budget. Director Hayman so moved. Seconded by Director Sneddon, the motion carried unanimously with a vote of six in favor.

Ayes: Sneddon, Hayman, Van Wingerden, Hanson

Nays:

Absent:

Abstain:

7. **RESOLUTION NO. 686 - SYCAMORE CANYON SLOPE STABILIZATION PROJECT – CONSTRUCTION BID AWARD AND ENGINEERING SERVICES DURING CONSTRUCTION**

Ms. Gingras presented the staff memo and recommendation that the Board approve Resolution No. 686. Mr. Degner provided background on the project and fielded questions from the Board. Mr. Degner advised that additional funding from FEMA will be explored since the bid came in higher

than originally anticipated. Vice-President Hanson called for a motion. Accordingly, Director Sneddon motioned that the Board approve the bid from Hanly General Engineering Corp and authorize the General Manager to execute a contract as provided in the staff memo. Direct Hayman seconded the motion which passed unanimously with a vote of six in favor.

Ayes: Sneddon, Hayman, Van Wingerden, Hanson

Nays:

Absent:

Abstain:

8. **RESOLUTION NO. 687 – ADOPTION OF COMB HAZARD MITIGATION PLAN (ANNEX TO THE 2017 SANTA BARBARA COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN)**

Ms. Gingras presented Resolution No. 687 for Board approval, as provided in the staff memo, noting that funds may be available to COMB for preventative work projects, as a result of COMB's Hazard Mitigation Plan annexation to the County's Hazard Mitigation Plan. She advised that the executed Resolution will be provided to FEMA and fielded questions from the Board. Vice-President Hanson asked for a motion. Director Sneddon motioned that the Board adopt the COMB Hazard Mitigation Plan as an Annex to the 2017 Santa Barbara County Multi-Jurisdictional Hazard Mitigation Plan. Director Van Wingerden seconded and the motion carried with a unanimous vote of six in favor.

Ayes: Sneddon, Hayman, Van Wingerden, Hanson

Nays:

Absent:

Abstain:

9. **SOUTH COAST CONDUIT (SCC) SAN JOSE CREEK CROSSING PROTECTIVE MEASURES PROJECT – ENGINEERING DESIGN**

Mr. Degner presented the staff memo and recommendation for the San Jose Creek Crossing Protective Measure project. He provided background on the project and fielded questions from the Board. After discussion, Vice-President Hanson requested a motion. Director Sneddon motioned to direct the General Manger to execute a Professional Services Agreement, as provided in the staff memo. Director Hayman seconded the motion which passed unanimously with a vote of six in favor.

Ayes: Sneddon, Hayman, Van Wingerden, Hanson

Nays:

Absent:

Abstain:

10. **NORTH PORTAL ACCESS ROAD EROSION CONTROL PROJECT**

Mr. Degner summarized the recommendation as provided in the staff memo. Board members queried whether rock could be acquired from Santa Barbara County and asked staff to follow up. Upon request for a motion, Director Sneddon motioned that the Board direct the General Manager to execute a contract as provided in the staff memo. Director Van Wingerden seconded the motion which carried unanimously with a vote of six in favor.

Ayes: Sneddon, Hayman, Van Wingerden, Hanson

Nays:

Absent:

Abstain:

11. **RESOLUTION NO. 688 – CONDITIONAL APPROVAL OF EXPENDITURES FOR QUIOTA CREEK CROSSING NO. 8 FISH PASSAGE IMPROVEMENT PROJECT**

Ms. Gingras introduced Resolution No. 688 and reviewed for the Board the history of the temporary indemnification undertaken previously by COMB and provided to the County of Santa Barbara. Mr. Robinson updated the Board regarding one landowner's still unsigned flood certificates. After a lengthy discussion, Director Hayman requested that additional language be included in the recommendation, clearly stating the conditions upon which the Board will undertake the project. Counsel assisted in restating the motion. Vice-President Hanson asked if there were a motion to add the conditional language and approve the amended motion. Director Hayman motioned as follows:

The GM be directed to accurately communicate to the landowner that no additional funding beyond the encroachment permits would be authorized until such time as the indemnification has been relinquished or released and that relinquishment has either been issued by or submitted to the County;

Vice-President Hanson seconded and the motion carried with a vote of six in favor.

Ayes: Sneddon, Hayman, Van Wingerden, Hanson

Nays:

Absent:

Abstain:

12. **GENERAL MANAGER REPORT**

- Administration
- Engineering / Operations Division

Ms. Gingras presented the General Manager report, providing information regarding COMB's approach to obtain IRWMP grant funding for the Lake Water Quality and Sediment Management Study under the definition of a Decision Support Tool. Ms. Gingras reported that proposals for a new mobile office are being reviewed by staff prior to presentation to the Administrative Committee. She summarized briefly staff's work plan projects. Ms. Gingras also advised that Reclamation has scheduled divers and equipment for a June 10, 2019 dive to retrieve the Hilton Creek Watering system's snorkel apparatus currently lying on the lake bottom.

13. **WATER RESOURCES ENGINEER / OPERATIONS REPORT**

- Climate Conditions
- Lake Cachuma Conveyance Feasibility Study
- Lake Water Quality and Sediment Management Study
- Infrastructure Improvement Planning
- Lake Cachuma Operations
- South Coast Conduit Operations

Mr. Degner presented the Water Resources Engineer report, highlighting current climate conditions and the statuses of the Lake Cachuma Conveyance Feasibility Study and the Lake Cachuma Water Quality and Sediment Management Study. Mr. Degner advised that the final report and project description of the Lake Cachuma Conveyance Feasibility Study will be presented to the member agency General Managers for their review. He also reported that staff contributed to a Data Gap Analysis by sampling lake water at various locations. Mr. Degner fielded questions from the Board.

Mr. Flora presented the Operations report, highlighting maintenance tasks at the North Portal and a re-capped air vent project. He provided detailed information on a repair of a section of exposed conduit and updated the Board on tree removal projects and other routine Operations inspections and tasks.

14. FISHERIES DIVISION REPORT

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

Mr. Robinson presented the Fisheries Division report as contained in the Board packet, highlighting the flow in Hilton Creek, the status of monitoring tasks, tributary projects and the completion of Crossings 5 and 9 projects. Further, he reported that staff continues to work on the Annual Monitoring Summaries, with expected completion of the 2017 summary by end of week. Mr. Robinson fielded questions from the Board.

15. PROGRESS REPORT ON LAKE CACHUMA OAK TREE PROGRAM

- Maintenance and Monitoring

Mr. Robinson presented the progress report on the Lake Cachuma Oak Tree program, reporting that the recent rains had allowed the team to move from irrigation tasks to weed abatement. He noted that the annual Oak Tree committee meeting will be scheduled in early July.

16. MONTHLY CACHUMA PROJECT REPORTS

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

Ms. Gingras presented the monthly Cachuma Project reports as contained in the Board packet, noting that State Water deliveries remain suspended and that member agencies are not being charged for unallocated water. She reported that the reservoir stands at 80.8% of capacity.

17. DIRECTORS' REQUESTS FOR AGENDA ITEMS FOR FUTURE MEETING

There were no requests from directors for future agenda items.

18. **[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

The Board entered into closed session at 3:04 PM.

19. **RECONVENE INTO OPEN SESSION**

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

- 18a. *Cachuma Operation & Maintenance Board v. Santa Ynez River Water Conservation District, Improvement District Number 1*, Case No. 19CV01873 – Breach of Contract and Declaratory Relief

The Board came out of closed session at 3:24 PM. There was no reportable action.

20. **MEETING SCHEDULE**

- **June 24, 2019 at 1:00 PM, COMB Office**
- **Board Packages available on COMB website www.cachuma-Board.org**

21. **COMB ADJOURNMENT**

There being no further business, the meeting was adjourned at 3:24 PM.

Respectfully submitted,

Janet Gingras, Secretary of the Board

APPROVED:

	<i>Approved</i>
√	<i>Unapproved</i>

Polly Holcombe, President of the Board

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

ASSETS	May 31, 19
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	361,141.30
1100 · Revolving Fund	153,911.92
Total Checking/Savings	1,216,886.55
Accounts Receivable	
1301 · Accounts Receivable	137,345.98
Total Accounts Receivable	137,345.98
Other Current Assets	
1010 · Petty Cash	500.00
1200 · LAIF	1,587,000.87
1303 · Bradbury SOD Act Assessments Receivable	195,566.00
1304 · Lauro Dam SOD Act Assessments Receivable	30,258.63
1400 · Prepaid Insurance	19,555.72
Total Other Current Assets	1,832,881.22
Total Current Assets	3,187,113.75
Fixed Assets	
1500 · Vehicles	445,723.91
1505 · Office Furniture & Equipment	443,923.41
1510 · Mobile Offices	97,803.34
1515 · Field Equipment	594,001.22
1525 · Paving	38,351.00
1550 · Accumulated Depreciation	(1,462,883.66)
Total Fixed Assets	156,919.22
Other Assets	
1910 · Long Term Bradbury SOD Act Assess Receivable	4,680,154.07
1920 · Long Term Lauro SOD Act Assess Receivable	835,169.28
1922 · Deferred Outflow of Resources (GASB 68)	581,365.00
Total Other Assets	6,096,688.35
TOTAL ASSETS	9,440,721.32

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

LIABILITIES & NET POSITION	<u>May 31, 19</u>
Liabilities	
Current Liabilities	
Accounts Payable	
2200 · Accounts Payable	\$ 44,618.94
Total Accounts Payable	<u>44,618.94</u>
Other Current Liabilities	
2550 · Vacation/Sick	150,085.16
2561 · Bradbury Dam SOD Act	195,576.66
2563 · Lauro Dam SOD Act	30,258.63
2565 · Accrued Interest SOD Act	62,424.00
2567 · Loan Payable Current EPFP	418,020.44
2590 · Deferred Revenue	<u>701,833.33</u>
Total Other Current Liabilities	<u>1,558,198.22</u>
Total Current Liabilities	<u>1,602,817.16</u>
Long Term Liabilities	
2602 · Long Term SOD Act Liability-Bradbury	4,680,144.07
2603 · Long Term SOD Act Liability-Lauro	835,169.28
2604 · OPEB Long Trem Liability	5,078,967.00
2605 · Loan Payable Principal - EPFP	539,039.17
2610 · Net Pension Liability (GASB 68)	1,781,995.00
2611 · Deferred Inflow of Resources (GASB 68)	<u>149,386.00</u>
Total Long Term Liabilities	<u>13,064,700.52</u>
Total Liabilities	<u>14,667,517.68</u>
Net Position	
3000 · Opening Balance Net Position	(5,296,580.05)
3901 · Retained Net Position	(1,283,902.60)
Net Position	<u>1,353,686.29</u>
Total Net Position	<u>(5,226,796.36)</u>
TOTAL LIABILITIES & NET POSITION	<u><u>\$ 9,440,721.32</u></u>

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

	Fisheries				Operations				TOTAL			
	Jul '18 - May 19	\$ Over/(Under)			Jul '18 - May 19	\$ Over/(Under)			Jul '18 - May 19	\$ Over/(Under)		
		Budget	Budget	% of Budget		Budget	Budget	% of Budget		Budget	Budget	% of Budget
Revenue												
3000 REVENUE												
3001 · O&M Budget (Qtrly Assessments)	\$897,716.00	\$946,511.00	-\$48,795.00	94.85%	\$3,290,378.00	\$3,292,374.00	-\$1,996.00	99.94%	\$4,188,094.00	\$4,238,885.00	-\$50,791.00	98.8%
3006 · Warren Act	569,521.00	539,521.00	30,000.00	105.56%	0.00				569,521.00	539,521.00	30,000.00	105.56%
3009 · EPFP Loan (Qtrly Assessments)	0.00				347,587.65				347,587.65	0.00	347,587.65	100.0%
3010 · Interest Income	0.00				23,226.65				23,226.65	0.00	23,226.65	100.0%
3035 · Cachuma Project Betterment Fund	90,000.00	90,000.00	0.00	100.0%	0.00				90,000.00	90,000.00	0.00	100.0%
3037 · Grant-QC Crossing #5	893,287.00	893,287.00	0.00	100.0%	0.00				893,287.00	893,287.00	0.00	100.0%
3039 · Grant-QC Crossing #9	993,121.00	993,121.00	0.00	100.0%	0.00				993,121.00	993,121.00	0.00	100.0%
3042 · Sycamore Cnyn Slope Stabln Reim	0.00				7,502.00				7,502.00	0.00	7,502.00	100.0%
Total 3000 REVENUE	3,443,645.00	3,462,440.00	-18,795.00	99.46%	3,668,694.30	3,292,374.00	376,320.30	111.43%	7,112,339.30	6,754,814.00	357,525.30	105.29%
Total Revenue	3,443,645.00	3,462,440.00	-18,795.00	99.46%	3,668,694.30	3,292,374.00	376,320.30	111.43%	7,112,339.30	6,754,814.00	357,525.30	105.29%
Gross Profit	3,443,645.00	3,462,440.00	-18,795.00	99.46%	3,668,694.30	3,292,374.00	376,320.30	111.43%	7,112,339.30	6,754,814.00	357,525.30	105.29%
Expense												
3100 · LABOR - OPERATIONS	0.00				698,935.12	813,247.00	-114,311.88	85.94%	698,935.12	813,247.00	-114,311.88	85.94%
3200 VEH & EQUIPMENT												
3201 · Vehicle/Equip Mtce	0.00				29,584.79	30,000.00	-415.21	98.62%	29,584.79	30,000.00	-415.21	98.62%
3202 · Fixed Capital	0.00				30,009.36	30,000.00	9.36	100.03%	30,009.36	30,000.00	9.36	100.03%
3203 · Equipment Rental	0.00				3,796.05	5,000.00	-1,203.95	75.92%	3,796.05	5,000.00	-1,203.95	75.92%
3204 · Miscellaneous	0.00				885.59	5,000.00	-4,114.41	17.71%	885.59	5,000.00	-4,114.41	17.71%
Total 3200 VEH & EQUIPMENT	0.00				64,275.79	70,000.00	-5,724.21	91.82%	64,275.79	70,000.00	-5,724.21	91.82%
3300 · CONTRACT LABOR												
3301 · Conduit, Meter, Valve & Misc	0.00				21,285.59	20,000.00	1,285.59	106.43%	21,285.59	20,000.00	1,285.59	106.43%
3302 · Buildings & Roads	0.00				6,080.44	20,000.00	-13,919.56	30.4%	6,080.44	20,000.00	-13,919.56	30.4%
3303 · Reservoirs	0.00				2,611.83	30,000.00	-27,388.17	8.71%	2,611.83	30,000.00	-27,388.17	8.71%
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				29,977.86	95,000.00	-65,022.14	31.56%	29,977.86	95,000.00	-65,022.14	31.56%
3400 · MATERIALS & SUPPLIES												
3401 · Conduit, Meter, Valve & Misc	0.00				18,509.45	65,000.00	-46,490.55	28.48%	18,509.45	65,000.00	-46,490.55	28.48%
3402 · Buildings & Roads	0.00				1,376.82	8,000.00	-6,623.18	17.21%	1,376.82	8,000.00	-6,623.18	17.21%
3403 · Reservoirs	0.00				988.65	5,000.00	-4,011.35	19.77%	988.65	5,000.00	-4,011.35	19.77%
Total 3400 · MATERIALS & SUPPLIES	0.00				20,874.92	78,000.00	-57,125.08	26.76%	20,874.92	78,000.00	-57,125.08	26.76%
3500 · OTHER EXPENSES												
3501 · Utilities	0.00				6,068.09	7,000.00	-931.91	86.69%	6,068.09	7,000.00	-931.91	86.69%
3502 · Uniforms	0.00				522.35	5,000.00	-4,477.65	10.45%	522.35	5,000.00	-4,477.65	10.45%
3503 · Communications	0.00				17,105.84	18,500.00	-1,394.16	92.46%	17,105.84	18,500.00	-1,394.16	92.46%
3504 · USA & Other Services	0.00				2,970.88	4,000.00	-1,029.12	74.27%	2,970.88	4,000.00	-1,029.12	74.27%
3505 · Miscellaneous	0.00				9,368.05	8,000.00	1,368.05	117.1%	9,368.05	8,000.00	1,368.05	117.1%
3506 · Training	0.00				394.55	3,000.00	-2,605.45	13.15%	394.55	3,000.00	-2,605.45	13.15%
Total 3500 · OTHER EXPENSES	0.00				36,429.76	45,500.00	-9,070.24	80.07%	36,429.76	45,500.00	-9,070.24	80.07%
4100 · LABOR - FISHERIES	610,196.55	692,409.00	-82,212.45	88.13%	0.00				610,196.55	692,409.00	-82,212.45	88.13%
4200 · VEHICLES & EQUIP - FISHERIES												
4270 · Vehicle/Equip Mtce	24,955.94	15,000.00	9,955.94	166.37%	0.00				24,955.94	15,000.00	9,955.94	166.37%
4280 · Fixed Capital	0.00	15,000.00	-15,000.00	0.0%	0.00				0.00	15,000.00	-15,000.00	0.0%
4290 · Miscellaneous	166.75	2,500.00	-2,333.25	6.67%	0.00				166.75	2,500.00	-2,333.25	6.67%
Total 4200 · VEHICLES & EQUIP - FISHERIES	25,122.69	32,500.00	-7,377.31	77.3%	0.00				25,122.69	32,500.00	-7,377.31	77.3%

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

	Fisheries				Operations				TOTAL			
	\$ Over/(Under)				\$ Over/(Under)				\$ Over/(Under)			
	Jul '18 - May 19	Budget	Budget	% of Budget	Jul '18 - May 19	Budget	Budget	% of Budget	Jul '18 - May 19	Budget	Budget	% of Budget
4220 · CONTRACT LABOR - FISHERIES												
4221 · Meters & Valves	2,076.96	3,000.00	-923.04	69.23%	0.00				2,076.96	3,000.00	-923.04	69.23%
4222 · Fish Projects Maintenance	10,567.74	25,000.00	-14,432.26	42.27%	0.00				10,567.74	25,000.00	-14,432.26	42.27%
Total 4220 · CONTRACT LABOR - FISHERIES	12,644.70	28,000.00	-15,355.30	45.16%	0.00				12,644.70	28,000.00	-15,355.30	45.16%
4300 · MATERIALS/SUPPLIES - FISHERIES												
4390 · Miscellaneous	7,571.06	7,000.00	571.06	108.16%	0.00				7,571.06	7,000.00	571.06	108.16%
Total 4300 · MATERIALS/SUPPLIES - FISHERIES	7,571.06	7,000.00	571.06	108.16%	0.00				7,571.06	7,000.00	571.06	108.16%
4500 · OTHER EXPENSES - FISHERIES												
4502 · Uniforms	400.57	3,500.00	-3,099.43	11.45%	0.00				400.57	3,500.00	-3,099.43	11.45%
Total 4500 · OTHER EXPENSES - FISHERIES	400.57	3,500.00	-3,099.43	11.45%	0.00				400.57	3,500.00	-3,099.43	11.45%
4999 · GENERAL & ADMINISTRATIVE												
5000 · Director Fees	0.00				6,484.40	12,000.00	-5,515.60	54.04%	6,484.40	12,000.00	-5,515.60	54.04%
5001 · Director Mileage	0.00				415.73	1,000.00	-584.27	41.57%	415.73	1,000.00	-584.27	41.57%
5100 · Legal	0.00				82,528.39	75,000.00	7,528.39	110.04%	82,528.39	75,000.00	7,528.39	110.04%
5101 · Audit	0.00				14,453.68	22,750.00	-8,296.32	63.53%	14,453.68	22,750.00	-8,296.32	63.53%
5150 · Unemployment Tax	0.00				0.00	5,000.00	-5,000.00	0.0%	0.00	5,000.00	-5,000.00	0.0%
5200 · Liability Insurance	0.00				22,262.35	50,551.00	-28,288.65	44.04%	22,262.35	50,551.00	-28,288.65	44.04%
5310 · Postage/Office Exp	0.00				5,397.01	5,000.00	397.01	107.94%	5,397.01	5,000.00	397.01	107.94%
5311 · Office Equip/Leases	0.00				8,280.09	9,200.00	-919.91	90.0%	8,280.09	9,200.00	-919.91	90.0%
5312 · Misc Admin Expenses	0.00				13,293.14	11,500.00	1,793.14	115.59%	13,293.14	11,500.00	1,793.14	115.59%
5313 · Communications	0.00				7,497.63	8,500.00	-1,002.37	88.21%	7,497.63	8,500.00	-1,002.37	88.21%
5314 · Utilities	0.00				8,111.71	9,737.00	-1,625.29	83.31%	8,111.71	9,737.00	-1,625.29	83.31%
5315 · Membership Dues	0.00				9,855.99	9,345.00	510.99	105.47%	9,855.99	9,345.00	510.99	105.47%
5316 · Admin Fixed Assets	0.00				10,871.87	3,000.00	7,871.87	362.4%	10,871.87	3,000.00	7,871.87	362.4%
5318 · Computer Consultant	0.00				15,989.27	15,000.00	989.27	106.6%	15,989.27	15,000.00	989.27	106.6%
5325 · Emp Training/Subscriptions	0.00				595.04	2,000.00	-1,404.96	29.75%	595.04	2,000.00	-1,404.96	29.75%
5330 · Admin Travel/Conferences	0.00				16.30	2,000.00	-1,983.70	0.82%	16.30	2,000.00	-1,983.70	0.82%
5331 · Public Information	0.00				891.76	3,500.00	-2,608.24	25.48%	891.76	3,500.00	-2,608.24	25.48%
5317 · Admin Contract Labor	0.00				23,614.72	47,680.00	-24,065.28	49.53%	23,614.72	47,680.00	-24,065.28	49.53%
Total 4999 · GENERAL & ADMINISTRATIVE	0.00				230,559.08	292,763.00	-62,203.92	78.75%	230,559.08	292,763.00	-62,203.92	78.75%
5299 · ADMIN LABOR	0.00				503,115.49	549,881.00	-46,765.51	91.5%	503,115.49	549,881.00	-46,765.51	91.5%
5400 · GENERAL & ADMIN - FISHERIES												
5407 · Legal - FD	1,265.00	20,000.00	-18,735.00	6.33%	0.00				1,265.00	20,000.00	-18,735.00	6.33%
5410 · Postage / Office Supplies	2,662.13	4,000.00	-1,337.87	66.55%	0.00				2,662.13	4,000.00	-1,337.87	66.55%
5411 · Office Equipment / Leases	4,458.47	5,418.00	-959.53	82.29%	0.00				4,458.47	5,418.00	-959.53	82.29%
5412 · Misc. Admin Expense	5,986.11	7,500.00	-1,513.89	79.82%	0.00				5,986.11	7,500.00	-1,513.89	79.82%
5413 · Communications	4,617.16	5,805.00	-1,187.84	79.54%	0.00				4,617.16	5,805.00	-1,187.84	79.54%
5414 · Utilities	4,367.88	5,243.00	-875.12	83.31%	0.00				4,367.88	5,243.00	-875.12	83.31%
5415 · Membership Dues	4,966.23	5,955.00	-988.77	83.4%	0.00				4,966.23	5,955.00	-988.77	83.4%
5416 · Admin Fixed Assets	5,854.08	3,000.00	2,854.08	195.14%	0.00				5,854.08	3,000.00	2,854.08	195.14%
5417 · Admin Contract Labor	12,715.65	23,110.08	-10,394.43	55.02%	0.00				12,715.65	23,110.08	-10,394.43	55.02%
5418 · Computer Consultant	8,609.55	7,000.00	1,609.55	122.99%	0.00				8,609.55	7,000.00	1,609.55	122.99%
5425 · Employee Education/Subscription	2,425.40	2,500.00	-74.60	97.02%	0.00				2,425.40	2,500.00	-74.60	97.02%
5426 · Director Fees	3,491.60	6,500.00	-3,008.40	53.72%	0.00				3,491.60	6,500.00	-3,008.40	53.72%
5427 · Director Mileage	223.85	500.00	-276.15	44.77%	0.00				223.85	500.00	-276.15	44.77%

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

	Fisheries				Operations				TOTAL			
	\$ Over/(Under)				\$ Over/(Under)				\$ Over/(Under)			
	Jul '18 - May 19	Budget	Budget	% of Budget	Jul '18 - May 19	Budget	Budget	% of Budget	Jul '18 - May 19	Budget	Budget	% of Budget
5430 · Travel	1,895.16	2,500.00	-604.84	75.81%	0.00				1,895.16	2,500.00	-604.84	75.81%
5431 · Public Information	1,480.19	1,500.00	-19.81	98.68%	0.00				1,480.19	1,500.00	-19.81	98.68%
5441 · Audit	7,405.82	12,250.00	-4,844.18	60.46%	0.00				7,405.82	12,250.00	-4,844.18	60.46%
5443 · Liab & Property Ins	11,987.42	24,745.00	-12,757.58	48.44%	0.00				11,987.42	24,745.00	-12,757.58	48.44%
Total 5400 · GENERAL & ADMIN - FISHERIES	84,411.70	137,526.08	-53,114.38	61.38%	0.00				84,411.70	137,526.08	-53,114.38	61.38%
5499 · ADMIN LABOR-FISHERIES	186,867.39	211,508.92	-24,641.53	88.35%	0.00				186,867.39	211,508.92	-24,641.53	88.35%
5510 · Integrated Reg. Water Mgt Plan	0.00				5,114.93	5,000.00	114.93	102.3%	5,114.93	5,000.00	114.93	102.3%
6000 · SPECIAL PROJECTS												
6062 · SCADA	0.00				963.63	20,000.00	-19,036.37	4.82%	963.63	20,000.00	-19,036.37	4.82%
6090 · COMB Office Building	0.00				5,121.56	200,000.00	-194,878.44	2.56%	5,121.56	200,000.00	-194,878.44	2.56%
6096 · SCC Structure Rehabilitation	0.00				520,068.33	484,400.00	35,668.33	107.36%	520,068.33	484,400.00	35,668.33	107.36%
6096-2 · SCC Str Rehab Thomas DebrisFlow	0.00				15,690.82				15,690.82	0.00	15,690.82	100.0%
6097 · GIS and Mapping	0.00				6,233.19	10,000.00	-3,766.81	62.33%	6,233.19	10,000.00	-3,766.81	62.33%
6105 · ROW Management Program	0.00				10,193.36	20,000.00	-9,806.64	50.97%	10,193.36	20,000.00	-9,806.64	50.97%
6118 · Repair Lateral 3 Structure	0.00				88,384.50	100,000.00	-11,615.50	88.39%	88,384.50	100,000.00	-11,615.50	88.39%
6120 · Emergency Pumping Fac Project	0.00				77,199.50	230,000.00	-152,800.50	33.57%	77,199.50	230,000.00	-152,800.50	33.57%
6122 · Rehab San Antonio Crk Blow-off	0.00				73,296.26	60,000.00	13,296.26	122.16%	73,296.26	60,000.00	13,296.26	122.16%
6132 · Sycamore Canyon Slope Stabiliz	0.00				46,814.67	500,000.00	-453,185.33	9.36%	46,814.67	500,000.00	-453,185.33	9.36%
6132-1 · SycCynSlopeStab-CO Funds FY2017	0.00				0.00	-500,000.00	500,000.00	0.0%	0.00	-500,000.00	500,000.00	0.0%
6136 · SCC Isolation Valve Evaluation	0.00				0.00	25,000.00	-25,000.00	0.0%	0.00	25,000.00	-25,000.00	0.0%
6137 · SCC Lower Reach Lateral Structu	0.00				15,700.00	50,000.00	-34,300.00	31.4%	15,700.00	50,000.00	-34,300.00	31.4%
6138 · Cachuma Watershed Mgmt Study ⁽¹⁾	0.00				112,361.12	143,583.00	-31,221.88	78.26%	112,361.12	143,583.00	-31,221.88	78.26%
Total 6000 · SPECIAL PROJECTS	0.00				972,026.94	1,342,983.00	-370,956.06	72.38%	972,026.94	1,342,983.00	-370,956.06	72.38%
6200 · FISHERIES ACTIVITIES												
6201 · FMP Implementation	25,173.96	45,000.00	-19,826.04	55.94%	0.00				25,173.96	45,000.00	-19,826.04	55.94%
6202 · GIS and Mapping	4,401.19	10,000.00	-5,598.81	44.01%	0.00				4,401.19	10,000.00	-5,598.81	44.01%
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	79,775.68	100,000.00	-20,224.32	79.78%	0.00				79,775.68	100,000.00	-20,224.32	79.78%
6206 · Tri County Fish Team Funding	5,000.00	5,000.00	0.00	100.0%	0.00				5,000.00	5,000.00	0.00	100.0%
6207 · Oak Tree Restoration Program	15,920.48	40,000.00	-24,079.52	39.8%	0.00				15,920.48	40,000.00	-24,079.52	39.8%
Total 6200 · FISHERIES ACTIVITIES	130,271.31	216,000.00	-85,728.69	60.31%	0.00				130,271.31	216,000.00	-85,728.69	60.31%
6300 · HABITAT ENHANCEMENT												
6303 · Tributary Projects Support	18,262.30	20,000.00	-1,737.70	91.31%	0.00				18,262.30	20,000.00	-1,737.70	91.31%
6315 · Quiota Creek Crossing 8	36,027.42	30,000.00	6,027.42	120.09%	0.00				36,027.42	30,000.00	6,027.42	120.09%
6316 · Quiota Creek Crossing 5	942,317.93	960,000.00	-17,682.07	98.16%	0.00				942,317.93	960,000.00	-17,682.07	98.16%
6317 · Salsipuedes Fish Ladder Repair	0.00	8,000.00	-8,000.00	0.0%	0.00				0.00	8,000.00	-8,000.00	0.0%
6318 · Quiota Creek Crossing 9	1,102,610.21	1,115,996.00	-13,385.79	98.8%	0.00				1,102,610.21	1,115,996.00	-13,385.79	98.8%
Total 6300 · HABITAT ENHANCEMENT	2,099,217.86	2,133,996.00	-34,778.14	98.37%	0.00				2,099,217.86	2,133,996.00	-34,778.14	98.37%
7007 · INTEREST EXPENSE-EPFP	0.00				40,639.29				40,639.29	0.00	40,639.29	100.0%
Total Expense	3,156,703.83	3,462,440.00	-305,736.17	91.17%	2,601,949.18	3,292,374.00	-690,424.82	79.03%	5,758,653.01	6,754,814.00	-996,160.99	85.25%
Net Surplus/Deficit	\$286,941.17	\$0.00	\$286,941.17	100.0%	\$1,066,745.12	\$0.00	\$1,066,745.12	100.0%	\$1,353,686.29	\$0.00	\$1,353,686.29	100.0%

Footnote/Disclosure:

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

THIS PAGE INTENTIONALLY LEFT BLANK

CACHUMA OPERATION & MAINTENANCE BOARD

BOARD MEMORANDUM

Date:	June 24, 2019
Submitted by:	Janet Gingras

SUBJECT: Investment Report – May 31, 2019

RECOMMENDATION

The Board of Directors receive and file the Cachuma Operation and Maintenance Board Investment Report as of May 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 May 2019, is reported at 2.449%.

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	04/30/2019	\$ 887,000.87
(+) Deposits/Credits	05/08/2019	700,000.00
(-) Checks/Withdrawals		
Statement Balance	05/31/2019	\$ 1,587,000.87

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	04/30/2019	\$ 10,215.61
	(+) Deposits/Credits		-
	(-) Checks/Withdrawals		-
	Statement Balance	05/31/2019	\$ 10,215.61
American Riviera Bank Warren Acct Trust Fund			
	Previous Balance	04/30/2019	\$ 714,201.65
	(+) Deposits/Credits		
	(-) Checks/Withdrawals	05/31/2019	22,583.93
	Statement Balance	05/31/2019	\$ 691,617.72

STATEMENT

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

Date	Num	Name	Memo	Amount
05/06/2019	26825	Calif Dept of Fish & Wildlife	Extend Permit for Emergency Pumping Project (Ops)	-597.00
05/06/2019	26826	Wells Fargo Vendor Fin Serv	Copier Leases - Kyocera Taskalfas 3051ci & 6052ci	-411.08
05/06/2019	26827	Wright Express Fleet Services	Fleet Fuel April 2019	-5,628.24
05/09/2019	26828	Association of Ca Water Agencies/JPIA	June Health Benefits Coverage	-33,693.17
05/09/2019	26829	AT&T	Long Distance Charges 3/28/19-4/27/19	-877.31
05/09/2019	26830	Carpinteria Valley Lumber Company	Supplies - Weed Abatement (Ops)	-9.88
05/09/2019	26831	City of Santa-Barbara	Trash / Recycling April 2019	-249.88
05/09/2019	26832	Cori Hayman	Director Meeting Fees April 2019	-161.60
05/09/2019	26833	County of Santa--Barbara	Dump Fees (Ops)	-128.88
05/09/2019	26834	Culligan of Sylmar	RO Rental 4/1/19-5/31/19	-57.90
05/09/2019	26835	ECHO Communications	Message Service April 2019	-66.00
05/09/2019	26836	Frontier Communications	Phone Service - Ortega Reservoir	-59.75
05/09/2019	26837	Frontier Communications	Phone Service - North Portal	-59.75
05/09/2019	26838	Frontier Communications	Phone Service - Carpinteria	-59.75
05/09/2019	26839	Frontier Communications	Phone Service - Main	-429.74
05/09/2019	26840	Giffin Rental & Western Welding	Intake Tower Hoist Repair (Ops)	-681.75
05/09/2019	26841	Harrison Hardware	Supplies (Fisheries)	-69.13
05/09/2019	26842	HDR Engineering, Inc.	Engineering Services - FMP and Quiota Creek Crossing 8	-10,751.28
05/09/2019	26843	Home Depot Credit Services	Supplies (Ops)	-141.87
05/09/2019	26844	Instrument & Valve Services Company	Calibration of Equipment (Ops)	-1,862.65
05/09/2019	26845	Kristen Sneddon	Director Meeting Fees April 2019	-309.62
05/09/2019	26846	Lauren W. Hanson	Director Meeting Fees April 2019	-311.60
05/09/2019	26847	MarBorg Industries	Portable Facilities - Outlying Stations	-358.49
05/09/2019	26848	Musick, Peeler & Garrett LLP	General Counsel March 2019	-12,750.60
05/09/2019	26849	Nestle Pure Life Direct	Operations - Safety	-70.13
05/09/2019	26850	Paychex, Inc. (Payroll)	Payroll & Payroll Tax Services 4/5/19 & 4/19/19	-210.00
05/09/2019	26851	Polly Holcombe	Director Meeting Fees April 2019	-433.22
05/09/2019	26852	Powell Garage	2013 International Dura Start 4300 Diesel Water Truck - Oil Change & Service (Fisheries)	-394.82
05/09/2019	26853	Powell Garage	Wylie Water Trailer - Repair Rear Brake System (Fisheries)	-345.00
05/09/2019	26854	Southern California Edison	Electricity - Main & Outlying Stations	-1,051.53
05/09/2019	26855	Staples Credit Plan	Office Supplies (Ops & Fisheries)	-529.24
05/09/2019	26856	Turenchalk Network Services, Inc.	Backup Software - Fieldmapplet Server (Ops)	-395.00
05/09/2019	26857	Turenchalk Network Services, Inc.	Network Support & Server Builds	-4,176.34
05/09/2019	26858	Turenchalk Network Services, Inc.	Network Software Support	-522.40
05/09/2019	26859	Underground Service Alert of So. Calif.	Ticket Charges & Database Fee (Ops)	-191.50
05/16/2019	26860	VOID	VOID	0.00
05/16/2019	26861	Coastal Copy, LP	Copier Maintenance Agreement April 2019 - Task alfas 3051ci & 6052ci	-640.22
05/16/2019	26862	Cox Communications Santa Barbara	Business Internet May 2019	-140.00
05/16/2019	26863	Fluidigm Corporation	Dynamic Array IFC for Genotyping (Fisheries)	-14,876.03
05/16/2019	26864	Frontier Communications	Phone Service - SCADA (Ops)	-571.05
05/16/2019	26865	J&C Services	Office Cleaning Service - Weekly 4/12/19-5/3/19	-600.00
05/16/2019	26866	Southern California Edison	Electricity - Outlying Stations	-33.73
05/16/2019	26867	Tim Robinson	SRF Conference Lodging Expense Reimbursement (Fisheries)	-646.34
05/16/2019	26868	Total Compensation Systems, Inc.	GASB75 OPEB Rollover Valuation - Installment #1	-720.00
05/16/2019	26869	VOID	VOID	0.00
05/16/2019	26870	Verizon Wireless	Wireless Service - Operations Cell Phones, Wireless Modems, SCADA USBs	-722.15
05/22/2019	26871	Calif Dept of Fish & Wildlife	Quiota Creek Crossing 8 - 1600 Permit Fee	-5,313.00
05/27/2019	ACH052519A	American Riviera Bank (ARB)	EPFP Loan Payment 1 of 2	-28,123.75
05/27/2019	ACH052519B	American Riviera Bank (ARB)	EPFP Loan Payment 2 of 2	-10,354.21
05/29/2019	26872	Business Card	Website, Remote Desktop Software, Supplies, Prime Renewal, Tires (Ops & Fisheries)	-1,214.75
05/29/2019	26873	CA Surveying & Drafting Supply Inc.	GIS & Mapping - Trimble Warranty & Software Update (Ops & Fisheries)	-1,149.50
05/29/2019	26874	Cushman Contracting Corp.	Vent Pipe Repair (Ops)	-12,350.00
05/29/2019	26875	Cushman Contracting Corp.	EPFP Pumping System - Pay Req #61 (Ops)	-4,678.33
05/29/2019	26876	DMV Renewal	Permanent Carson Trailer ID Fee (Ops & Fisheries)	-10.00
05/29/2019	26877	eurofins Calscience	Nutrient Sampling Supplies - Lake Cachuma (Ops)	-3,249.00
05/29/2019	26878	Flowers & Associates, Inc.	SCC Lower Reach Lateral Structures - Engineering Services (Ops)	-15,700.00
05/29/2019	26879	Flowers & Associates, Inc.	Sycamore Canyon Slide Repair - Engineering Services (Ops)	-3,930.50
05/29/2019	26880	Giffin Rental & Western Welding	Equipment Rental (Fisheries)	-120.19
05/29/2019	26881	HDR Engineering, Inc.	Lauro Outlet Tunnel Concrete Saddle Repair - Engineering Services (Ops)	-2,611.83
05/29/2019	26882	Levi H. Miller	Santa Ynez River Berm Monitoring (Fisheries)	-991.80
05/29/2019	26883	Musick, Peeler & Garrett LLP	General Counsel April 2018	-12,292.20
05/29/2019	26884	Onset Computer Corporation	Air & Water Temperature Loggers (Fisheries)	-2,076.96
05/29/2019	26885	PG&E	Electricity - North Portal & Tecolote Tunnel	-327.06
05/29/2019	26886	Powell Garage	2003 Ford F150 - Major Service & Repairs (Fisheries)	-1,809.84
05/29/2019	26887	Powell Garage	2012 Chevy 2500 HD - Replace Front Rotors (Fisheries)	-488.47
05/29/2019	26888	The Gas Company	Gas - Main Office	-4.10
05/29/2019	26889	Tri-Co Reprographics	Quiota Creek Crossing 8 - Printing	-71.60
05/29/2019	26890	Turenchalk Network Services, Inc.	Field Mapplet Workstation & Virtual Server Software Licensing	-2,440.86

Cachuma Operation & Maintenance Board
Paid Claims
As of May 31, 2019

05/29/2019	26891	Wells Fargo Vendor Fin Serv	Copier Leases - Kyocera Taskalfas 3051ci & 6052ci	-411.08
05/29/2019	26892	Winema Industrial & Safety Supply	Calibration Gas for MX4 Monitors (Ops)	-360.54
05/29/2019	26893	Zac Gonzalez Landscaping & Tree Care	COMB Landscaping & Repair	-5,121.56
05/30/2019	26894	County of S.B.-P.W. Trans	Quiota Creek Crossing 8 - Initial Encroachment Permit Payment	-10,000.00
Total 1050 - General Fund				-222,196.75
TOTAL				<u>-222,196.75</u>

APPROVED FOR PAYMENT

_____ Director

_____ Director

_____ Director

CACHUMA OPERATION & MAINTENANCE BOARD

Fisheries Committee Meeting

3301 Laurel Canyon Road
Santa Barbara, CA 93105

Monday, June 17, 2019
1:00 PM

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. Quiota Creek Crossing No. 8 Fish Passage Improvement Project (*for information and possible recommendation*)
4. 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*)
5. Scopes of Work (SOW) and Professional Services Agreements for Fiscal Year 2019-20 for Fisheries Division Consultants (*for information and possible recommendation*)
6. Annual Monitoring Reports (AMR) / Annual Monitoring Summary (AMS) Updates (*for information*)
7. Update on Recent Fisheries Division Activities (*for information*)
8. 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.]

THIS PAGE INTENTIONALLY LEFT BLANK

CACHUMA OPERATION & MAINTENANCE BOARD

BOARD MEMORANDUM

Date:	June 24, 2019
Submitted by:	Janet Gingras

SUBJECT: Fiscal Year 2019-20 Elections and Appointments of Cachuma Operation and Maintenance Board

SUMMARY:

Each year during this time, the Board of Directors conducts the annual election of new officers and votes on appointed positions to serve the Board for the upcoming fiscal year. The newly elected officers and appointed positions will become effective July 1, 2019 and will remain in effect until June 30, 2020. The list below outlines the Officers to be elected at this time and the current positions held by members of the Board.

- a. Election of President
Currently Director Holcombe
 - b. Election of Vice-President
Currently Director Hanson
-
- c. Appointment of ACWA/JPIA Representative and Alternate
Currently Director Sneddon and Janet Gingras
 - d. Appointment of General Counsel
Currently William Carter - Musick, Peeler & Garrett LLP
 - e. Appointment of Secretary of the Board
Currently General Manager, Janet Gingras
 - f. Appointment of Treasurer and Auditor-Controller
Currently Administrative Manager, Edward Lyons

RECOMMENDATION:

The Board shall elect by nomination and roll call vote one of its members to serve as President and one of its members to serve as Vice President.

The Board shall make each appointment by a motion and roll call vote of the Board.

LIST OF EXHIBITS:

N/A

THIS PAGE INTENTIONALLY LEFT BLANK

CACHUMA OPERATION & MAINTENANCE BOARD

BOARD MEMORANDUM

Date:	June 24, 2019
Submitted by:	Tim Robinson
Approved by:	Janet Gingras

SUBJECT: **Scopes of Work – Fisheries Division Professional Consulting Services for Fiscal Year 2019-20**

RECOMMENDATION:

The Board of Directors approve the Fisheries Division Scopes of Work and supporting sole-source justifications for Fiscal Year 2019-20 and authorize execution of the corresponding Professional Services Agreements.

SUMMARY:

Annually, Scopes of Work for Fisheries Division consultants are drafted, reviewed, and incorporated into the annual COMB budget prior to execution of the corresponding Professional Services Agreements. Consultants assist COMB staff to implement compliance measures within the Cachuma Project Biological Opinion (2000), Lower Santa Ynez River Fish Management Plan (2000), Biological Assessment (1999 and 2000), and EIR/EIS (2004). Consultant tasks are developed within the Scopes of Work and carefully managed to assure timely delivery of the requested work product. Scopes of Work for Fiscal Year 2019-20 are attached for review; the associated financial obligation has been incorporated in the approved COMB budget for this fiscal year.

Specified consultants were chosen due to their expertise, legacy knowledge of the Cachuma Project and associated Biological Opinion, long-term and excellent service, completed engineering and design work where annual monitoring and reporting are required, or in-depth project specific design knowledge. Per the established COMB procurement policy, consultant sole-source justifications have been provided as supporting documentations.

FINANCIAL IMPACT:

Projected expenditures for the proposed Scopes of Work are reflected in the adopted Fiscal Year 2019-20 COMB budget.

COMMITTEE STATUS:

The Fisheries Committee has reviewed the Fiscal Year 2019-20 Scopes of Work and supporting sole-source justifications and forwards to the Board with a recommendation to approve and authorize execution of the corresponding Professional Services Agreements.

LIST OF EXHIBITS:

1. Scopes of Work for Fisheries Division Consultants - Fiscal Year 2019-20
2. Consultant Sole-Source Justifications
3. Sample Professional Services Agreement

THIS PAGE INTENTIONALLY LEFT BLANK

HDR Engineering, Inc.
Cachuma Project Fisheries Assistance

Exhibit A

Period of Performance and Scope of Work
Fiscal Year 2019-2020
July 1, 2019 through June 30, 2020

I. Period of Performance

The following scope of work is to be completed by HDR Engineering within the Fiscal Year beginning July 1, 2019 and ending June 30, 2020 (FY 2019-2020, or FY20).

II. Scope of Work FY 2019-2020

Task 1: BO/FMP implementation and technical support Task Estimated Cost: \$ 4,000

This task provides support for actions outlined in the Cachuma Project Biological Opinion (BO) and Lower Santa Ynez River Fish Management Plan (FMP).

Task 1.1 BO/FMP Compliance Tasks and Support *Estimated Cost: \$ 1,000*

HDR Engineering will provide assists as needed with the ongoing BO/FMP compliance and implementation efforts. This may include technical and analytical support and review of the fisheries monitoring programs and any proposed study plans.

Task 1.2 Fisheries monitoring program support *Estimated Cost: \$ 3,000*

HDR Engineering will review, evaluate, and develop technical elements of fish passage and fisheries related monitoring programs being implemented by COMB. Activities are anticipated to include: background research; program monitoring and design descriptions; and concept schematics. Data review, synthesis, and meeting attendance will be performed as directed by COMB.

Task 2: Project Operation and Maintenance Task Estimated Cost: \$ 10,500

This task provides technical assistance with operation, maintenance and performance reporting of completed tributary fish passage projects designed by HDR.

Task 2.1 Quiota Creek Crossing 0A – O&M technical *Estimated Cost: \$ 1,400*

HDR Engineering will provide technical assistance to COMB corresponding to the performance evaluation of the Quiota Creek Crossing 0A restoration project. Tasks are anticipated to include: one to two site visits per year to survey the facility; refinement of monitoring methods and procedures; hydraulic review of the grade control structures and

rock weir; review of technical data collected by COMB; and assistance in preparation of an annual performance evaluation (engineering and fisheries) report. Activities will be performed by an Engineer as directed by COMB.

Task 2.2 Quiota Creek Crossing 1 – O&M technical

Estimated Cost: \$ 700

HDR Engineering will provide technical assistance to COMB corresponding to the performance evaluation of the Quiota Creek Crossing 1 restoration project. Tasks are anticipated to include: one site visit per year to survey the facility; refinement of monitoring methods and procedures; hydraulic review of the grade control structures and rock weir; review of technical data collected by COMB; and assistance in preparation of an annual performance evaluation (engineering and fisheries) report if needed. Activities will be performed by an Engineer as directed by COMB.

Task 2.3 Quiota Creek Crossing 2 – O&M technical

Estimated Cost: \$ 1,400

HDR Engineering will provide technical assistance to COMB corresponding to the performance evaluation of the Quiota Creek Crossing 2 restoration project. Tasks are anticipated to include: one to two site visits per year to survey the facility; refinement of monitoring methods and procedures; hydraulic review of the grade control structures and rock weir; review of technical data collected by COMB; and assistance in preparation of an annual performance evaluation (engineering and fisheries) report. Activities will be performed by an Engineer as directed by COMB.

Task 2.4 Quiota Creek Crossing 3 – O&M technical

Estimated Cost: \$ 1,400

HDR Engineering will provide technical assistance to COMB corresponding to the performance evaluation of the Quiota Creek Crossing 3 restoration project. Tasks are anticipated to include: one to two site visits per year to survey the facility; refinement of monitoring methods and procedures; hydraulic review of the grade control structures and rock weir; review of technical data collected by COMB; and assistance in preparation of an annual performance evaluation (engineering and fisheries) report. Activities will be performed by an Engineer as directed by COMB.

Task 2.5 Quiota Creek Crossing 4 – O&M technical

Estimated Cost: \$ 1,400

HDR Engineering will provide technical assistance to COMB corresponding to the performance evaluation of the Quiota Creek Crossing 4 restoration project. Tasks are anticipated to include: one to two site visits per year to survey the facility; refinement of monitoring methods and procedures; hydraulic review of the grade control structures and rock weir; review of technical data collected by COMB; and assistance in preparation of an annual performance evaluation (engineering and fisheries) report. Activities will be performed by an Engineer as directed by COMB.

Task 2.6 Quiota Creek Crossing 5 – O&M technical

Estimated Cost: \$ 1,400

HDR Engineering will provide technical assistance to COMB corresponding to the performance evaluation of the Quiota Creek Crossing 5 restoration project. Tasks are anticipated to include: one to two site visits per year to survey the facility; refinement of monitoring methods and procedures; hydraulic review of the grade control structures and rock weir; review of technical data collected by COMB; and assistance in preparation of an annual performance evaluation (engineering and fisheries) report. Activities will be performed by an Engineer as directed by COMB.

Task 2.7 Quiota Creek Crossing 6 – O&M technical

Estimated Cost: \$ 700

HDR Engineering will provide technical assistance to COMB corresponding to the performance evaluation of the Quiota Creek Crossing 6 restoration project. Tasks are anticipated to include: one site visit per year to survey the facility; refinement of monitoring methods and procedures; hydraulic review of the grade control structures and rock weir; review of technical data collected by COMB; and assistance in preparation of an annual performance evaluation (engineering and fisheries) report if needed. Activities will be performed by an Engineer as directed by COMB.

Task 2.8 Quiota Creek Crossing 7 – O&M technical

Estimated Cost: \$ 700

HDR Engineering will provide technical assistance to COMB corresponding to the performance evaluation of the Quiota Creek Crossing 7 restoration project. Tasks are anticipated to include: one site visit per year to survey the facility; refinement of monitoring methods and procedures; hydraulic review of the grade control structures and rock weir; review of technical data collected by COMB; and assistance in preparation of an annual performance evaluation (engineering and fisheries) report if needed. Activities will be performed by an Engineer as directed by COMB.

Task 2.9 Quiota Creek Crossing 9 – O&M technical

Estimated Cost: \$ 1,400

HDR Engineering will provide technical assistance to COMB corresponding to the performance evaluation of the Quiota Creek Crossing 9 restoration project. Tasks are anticipated to include: one to two site visits per year to survey the facility; refinement of monitoring methods and procedures; hydraulic review of the grade control structures and rock weir; review of technical data collected by COMB; and assistance in preparation of an annual performance evaluation (engineering and fisheries) report. Activities will be performed by an Engineer as directed by COMB.

Task 3: Habitat Improvements

Task Estimated Cost: \$ 50,000

This task provides design support and engineering oversight for specific proposed or in construction tributary fish passage projects designed by HDR.

Task 3.1 Tributary Projects – technical support

Estimated Cost: \$ 20,000

HDR Engineering will support COMB in the implementation of fish passage projects along Quiota creek synonymous with the results presented in the Quiota Creek Watershed Fish Passage Enhancement Plan. Activities conducted under this task and as directed by COMB shall include: support of grant proposal development; preparation of concept level Engineer's construction drawings and cost opinions; preparation of project descriptions and development of technical data; and coordination with agencies and local governments in regards to fish passage guidelines.

Task 3.2 Quiota Creek Fish Passage Project at Crossing 8

Estimated Cost: \$ 30,000

HDR Engineering will finalize all design and bid documentation then oversee the construction of the project. This will include review and reporting of any requested Requests-For-Information and Change-Orders. Upon completion of the project, the ENGINEER will develop As-Built drawings.

TOTAL ESTIMATED TASK ORDER COST:

\$ 64,500

**Kenneth A. Knight Consulting, LLC
Oak Tree Restoration Specialist
Cachuma Project Fisheries Assistance**

Exhibit A

**Period of Performance and Scope of Work
Fiscal Year 2019-2020
July 1, 2019 through June 30, 2020**

I. Period of Performance

The following scope of work is to be completed by Kenneth A. Knight Consulting LLC, within the Fiscal Year beginning July 1, 2019 and ending June 30, 2020 (FY 2019-2020, or FY20).

II. Scope of Work FY 2019-2020

Cachuma Operation and Maintenance Board (COMB) with assistance from the U.S. Bureau of Reclamation (Reclamation) Bradbury Dam staff will perform all of the irrigation, maintenance, monitoring, mapping and surveying of oak trees in and around Lake Cachuma that were planted for mitigation due to the Lake Surcharge Project. Oak trees have been planted at three locations: Storke Flats and four locations below Bradbury Dam. Guidance with this effort will be conducted by Kenneth Knight, a registered consulting Arborist with a specialization in oak trees, who will assure that the maintenance, monitoring, and reporting are carried out to the best of our collective abilities and knowledge. The consultant will be required to visit the site as needed and participate in site visits with COMB management and Reclamation personnel. Specific tasks are as follows:

Task 1: Cachuma Oak Tree Restoration Program Plan **Task Estimated Cost: \$500**

Assist the COMB staff and COMB Board Lake Cachuma Oak Tree Program Committee in developing the Cachuma Lake Oak Tree Restoration Program 10-Year Plan that will evolve with time, experience, and identified tasks.

Task 2: Oak Tree General Maintenance **Task Estimated Cost: \$500**

Continue to guide as needed the COMB staff on general maintenance tasks for the mitigated oak trees at Bradbury Dam and Storke Flats that includes watering (irrigation), weeding, cage maintenance, mulching, base of tree maintenance, and predator management.

Task 3: Oak Tree Inventory, Mapping and Reporting **Task Estimated Cost: \$2,000**

Continue to give guidance on inventory and mapping of the planted oak trees at all locations. Also, the consultant will co-author the Annual Progress Report for the Lake Cachuma Oak Tree Restoration Program

Task 4: Additional Oak Tree Planting Plan

Task Estimated Cost: \$1,000

Assist in developing and implementing a plan for planting of additional oak trees within designated restoration areas as prescribed by the COMB Lake Cachuma Oak Tree Program Committee and described in the 2-Year Plan that would be planted in the Fiscal Year 2019-2020 and Fiscal Year 2020-2021, depending on weather conditions and availability of funds.

Task 5: General Arborist Services

Task Estimated Cost: \$2,000

Perform general arborist services associated with restoration, maintenance and cleanup projects.

TOTAL ESTIMATED TASK ORDER COST:

\$ 6,000

**Biologist Consultant
Cachuma Project Fisheries Assistance**

Exhibit A

**Period of Performance and Scope of Work
Fiscal Year 2019-2020
July 1, 2019 through June 30, 2020**

I. Period of Performance

The following scope of work is to be completed as needed by a Biology Consultant within the Fiscal Year beginning July 1, 2019 and ending June 30, 2020 (FY 2019-2020, or FY20).

II. Scope of Work FY 2019-2020

Task 1: BO/FMP Implementation and Technical Support Task Estimated Cost: \$4,000

This task provides support for actions outlined in the Cachuma Project Biological Opinion (BO) and Lower Santa Ynez River Fish Management Plan (FMP). The tasks that are authorized under this budget are outlined below.

1.1: BO/FMP Compliance Tasks and Support \$1,000

The consultant will provide assistance as needed with the ongoing BO/FMP compliance and implementation efforts. Tasks include providing technical and analytical support and review of the fisheries monitoring program and any proposed study plans. This may require participation on a science advisory committee to obtain consensus on the recommendations. This estimate includes conference calls plus limited preparation and follow-up per call.

1.2: Review of Fisheries Monitoring Reports \$3,000

The consultant will review as requested any fisheries monitoring reports that are prepared by the Cachuma Operation and Maintenance Board Fisheries Division Staff. These reports would be compliance measures for terms and conditions presented in the BO and would include the Annual Monitoring Report and technical memos prepared for Reclamation as well as or COMB Board. This may include participation on a science advisory committee to discuss comments on the reports under review.

TOTAL ESTIMATED TASK ORDER COST: \$ 4,000

THIS PAGE INTENTIONALLY LEFT BLANK

**Hydrology Consultant
Cachuma Project Fisheries Assistance**

Exhibit A

**Period of Performance and Scope of Work
Fiscal Year 2019-2020
July 1, 2019 through June 30, 2020**

I. Period of Performance

The following scope of work is to be completed as needed by a Hydrology Consultant within the Fiscal Year beginning July 1, 2019 and ending June 30, 2020 (FY 2019-2020, or FY20).

II. Scope of Work FY 2019-2020

TASK 1: BO/FMP implementation and technical support Task Estimated Cost: \$4,000

The task provides support for actions outlined in the Cachuma Project Biological Opinion (BO) and Lower Santa Ynez River Fish Management Plan (FMP).

- a) **Task 1.1 – BO/FMP Compliance Tasks and Technical Support (\$1,000)**
The consultant will provide support for ongoing BO/FMP compliance and implementation efforts, specifically regarding technical and analytical support and review of the fisheries monitoring program and any proposed study plans. This may require participation on a science advisory committee to obtain consensus on the recommendations. This estimate includes conference calls plus limited preparation and follow-up per call as needed.

- b) **Task 1.2 – Review of Fisheries Monitoring Reports (\$3,000)**
Consultant will review as requested any fisheries monitoring reports that are prepared by the Cachuma Project Biology Staff. These reports would be compliance measures for terms and conditions presented in the BO/FMP and would include the Annual Monitoring Report and technical memos prepared for Reclamation as well as the COMB Board. This may include participation on a science advisory committee to discuss comments on the reports under review.

TASK 2: Santa Ynez River Hydrology Support Task Estimated Cost: \$6,000

- a) **Task 2.1 – Hydrologic Support for the Fisheries Program (\$6,000)**
This task provides hydrologic support for analyzing operations in the SYR basin and operations for the Fisheries Program. Tasks include any technical refinements for miscellaneous studies involving hydrologic compliance with the BO/FMP specifically

regarding Bradbury Dam operating criteria and meeting target flows. Hence, this task includes making sure current releases are meeting BO target flows at Alisal and Highway 154 bridges, and evaluation for possible passage releases, and possible revisions to passage supplementation and 1.5 cfs target flow protocols.

TOTAL ESTIMATED TASK ORDER COST: \$ 10,000

Sole Source Contract Justification
Fisheries Division Consultant Work
June 24, 2019

To: Cachuma Operation and Maintenance Board

From: Janet Gingras (General Manager, COMB) and Timothy H. Robinson (Fisheries Division Manager, COMB)

Contract: HDR Fisheries Design Center, Scope of Work

A. Factors of Consideration

HDR Fisheries Design Center (HDR, initially Fish Pro) is one of the top fish passage engineering consulting firms in the country with extensive experience particularly on the west coast where they specialize in salmonid species and in our case the endangered southern steelhead (*Oncorhynchus, mykiss*). They have provided to the Fisheries Program exemplary fish passage design, data review, and planning assistance since prior to the issuance of the Cachuma Project Biological Opinion in September of 2000.

In 2008, HDR worked with fisheries staff to author the Quiota Creek Watershed Fish Passage Enhancement Plan which was the initial fish passage assessment and design work for all projects along Quiota Creek. Since then, they have amassed extensive local experience in analyzing the watershed hydrology and specific fish passage issues at all known fish passage impediments along the creek at Crossings 0A, 0B, 1, 2, 3, 4, 5, 6, 7, 8 and 9. HDR has successfully completed designs and overseen construction of the following projects at Crossings 0A, 1, 2, 3, 4, 5, 6, 7 and 9. Their cumulative knowledge in design and regulatory compliance for the National Marine Fisheries Service (NMFS), California Department of Fish and Wildlife (CDFW), U. S. Fish and Wildlife Service (USFWS), Santa Barbara County Public Works (County) as well as concerns and requirements of individual landowners has been extremely valuable in facilitating projects both in implementation and cost savings. Learned project elements are applied to the next fish passage enhancement project resulting in a streamlined and efficient design and implementation process for each project.

The fish passage enhancement project being undertaken this year and the level of engineering design provided by HDR for the project as of the beginning of Fiscal Year 20019-2020 are 95% for Crossing 8 (funded and in the process of approval).

HDR's lead fish passage engineer, Mike Garello, is particularly well positioned since he is the current Bioengineering Section President for the American Fisheries Society (AFS) where he interacts with fish passage engineers from across the country and more importantly engineers from regulatory agencies specifically NMFS and CDFW. This

provides insights and relationships to those who approve the designs of our projects which enhances and further legitimizes our project designs which reduces the amount of questions and review period by those approving regulatory agencies. Mr. Garelo regulatory gives talks at professional fisheries conferences and is well known and respected in the industry. Resumes from Mr. Garelo and his second in command, Shaun Bevan, are available upon request.

In addition, HDR successfully designed and assisted in the implementation of the Rancho San Julian Fish Ladder on El Jaro Creek, a tributary of Salsipuedes Creek, in 2009 and is actively involved with the required fix of the fish ladder at the Jalama Road Bridge on Salsipuedes Creek. HDR conducts all performance evaluations for each of their completed fish passage projects which totals 9 projects.

B. Price Analysis

HDR has provided years of valuable consulting services in engineering design, planning and navigating regulatory and County requirements. Their cumulative knowledge provides efficient consulting at a price point that would be difficult to match given their local experience and quantity of conducted fish passage analyses and engineering design work. Their long-term, in-depth and extensive professional experience within the Lower Santa Ynez River drainage continues to be top notch at a cost reflective of the longevity of the relationship.

Sole Source Contract Justification
Fisheries Division Consultant Work
June 24, 2019

To: Cachuma Operation and Maintenance Board

From: Janet Gingras (General Manager, COMB) and Timothy H. Robinson (Fisheries Division Manager, COMB)

Contract: Kenneth A. Knight Consulting, Scope of Work

A. Factors of Consideration

Kenneth Knight is a registered consulting arborist (License Number 507) who has been working on the Lake Cachuma Oak Tree Restoration Program as the project consultant for COMB since 2014. He has advised the COMB Fisheries Division staff on all facets of the program from maintenance of trees planted prior to 2014 through newly planted trees and maintenance of all through 2019. His expertise has been instrumental in the success and professionalism of the program and mitigation effort.

Mr. Knight's continued services are sought for Fiscal Year 2019-2020 as a continuation of the ongoing program so that we can maintain the same level of professional care, oversight and future planting.

B. Price Analysis

Mr. Knight has served COMB well both in product and price point. He provides a unique case due to his extensive experience with this oak tree restoration project over the past 6 years, professional knowledge and credentials as a licensed consulting arborist.

THIS PAGE INTENTIONALLY LEFT BLANK

PROFESSIONAL SERVICES AGREEMENT

CACHUMA OPERATION & MAINTENANCE BOARD

3301 Laurel Canyon Road
Santa Barbara, CA 93105-2017
Telephone (805) 687-4011 - FAX (805) 569-5825

Important terms of this **Professional Services Agreement** are printed on the following pages. For your protection, make sure that you read and understand all provisions before signing. The terms and conditions are incorporated in this document and will constitute a part of the contract between the parties when signed.

TO:

DATE:

PSA #

License #

Email:

Phone:

Project:

Cachuma Operation & Maintenance Board ("COMB") retains **«Consultant»**, (Consultant), and Consultant agrees to provide services per its attached proposal (incorporated herein) dated **«Proposal_Date»**.

Contract Price: _____ (Time and Materials, Maximum Not-to-Exceed)

Completion Date: _____

Instructions: Please sign and return both originals along with the appropriate insurance documentation. Upon acceptance by the Cachuma Operation & Maintenance Board, a copy will be signed by its authorized representative, and promptly returned to you. Insert below the names of your authorized representatives.

Accepted:

**Cachuma Operation & Maintenance Board,
a Joint Powers Agency**

Consultant:

«Consultant»

By: _____

Print

Name: Janet L. Gingras

Title: General Manager

Date: _____

Other authorized representatives:

By: _____

Print

Name: _____

Title: _____

Date: _____

On-site representatives:

CACHUMA OPERATION & MAINTENANCE BOARD

PROFESSIONAL SERVICES AGREEMENT

TERMS AND CONDITIONS

Scope of Services - Consultant shall provide professional services to COMB, in accordance with its attached proposal, in a diligent and professional manner. Consultant warrants that its services shall be performed, within the limits prescribed by COMB, in a manner consistent with the level of care and skill ordinarily exercised by other professionals in similar circumstances at the time its services are performed.

Task Orders - If Consultant proposes to engage in one or more separate Task Orders, then the parties shall approve each such Task Order with a mutually-agreed upon scope of work attached as Exhibit "A" thereto. Each Task Order shall include a description of the services to be performed by Consultant, a maximum not-to-exceed cost to complete the services, the schedule for performance, and other terms and conditions the parties deem appropriate. No Task Order shall be binding or enforceable unless and until it has been properly approved and executed by both parties. Each properly executed Task Order shall become a separate supplemental agreement to this Agreement, and subject to all of the terms of this Agreement unless otherwise noted in the Task Order. It is agreed that the parties are not required pursuant to this Agreement to enter into a minimum number of, or any, Task Orders.

Term of Agreement - Unless otherwise earlier terminated as specified elsewhere herein, this Agreement shall commence on the date first set forth above, and shall expire on the completion date set forth above.

Authorized Representatives - Consultant shall not accept direction or orders from any person other than COMB's General Manager or any COMB authorized representative(s) listed on the signature page hereto.

Payment Terms -

A. Consultant shall provide professional services on a time and materials basis, in accordance with Consultant's fees and costs schedule attached to its proposal or Task Order, for the maximum not-to-exceed amount stated herein or in the Task Order. The maximum not-to-exceed amount shall include all fees, costs and expenses to be paid to Consultant.

B. Invoices shall be submitted to COMB on a monthly basis. Invoices shall include the categories of Consultant's employees who perform services, the number of hours spent performing services, a description of the services, the hourly rate for each employee and the total compensation earned for that month. Upon COMB's request, Consultant shall include with the invoice a detailed verification, including accounting records and employee time records, of the work actually performed and costs incurred.

C. COMB shall pay Consultant within thirty (30) days after receipt of Consultant's

invoices, with the exception of any disputed amount(s) which may be withheld until resolution of the dispute. If COMB has reasonable grounds for believing that Consultant will be unable to materially perform the services under this Agreement or any Task Order, or there exists or may exist a claim against Consultant or COMB arising out of the negligence or intentional acts of Consultant or Consultant's material breach of any provision of this Agreement, then COMB may withhold payment of any amount payable to Consultant which is directly related to such negligence or breach.

D. No payment made pursuant to this Agreement shall be conclusive evidence of Consultant's performance of the Agreement, either wholly or in part, and no payment shall be construed to be an acceptance of Consultant's work.

Changes To Work, Method, Cost, etc. - Any change in the scope of work, method of performance, nature of materials or price thereof, or any other matter materially affecting the performance or nature of the work, will not be paid for or accepted unless such change, deletion or addition is approved in advance, in writing, or by a supplemental or amended Task Order executed by COMB's General Manager or authorized representative listed hereto.

Independent Contractor - The parties, in the performance of services under this Agreement, will be acting in an independent contractor relationship and not as agents, employees, or partners of one another. It is the express intention of the parties that Consultant is an independent contractor and not COMB's employee; and that the employees of Consultant, and any of Consultant's sub-consultants and their respective employees, are not COMB employees and are not entitled to any of the rights, benefits or privileges attributable to COMB employees. Consultant shall have control of the means, methods and details of performance of its work and services and shall only be subject to the general direction and supervision of COMB's General Manager or other authorized representative as set forth above to ensure the results contracted for are achieved.

Writings And Reports - Consultant agrees that no drafts, writings, reports, records, notes, data, work product, graphics, lists, images, information or communications (collectively "writings") developed, prepared or assembled by Consultant pursuant to this Agreement, or any information made available to Consultant by COMB, shall be revealed, disseminated, or made available by Consultant to any third party without the prior written consent of COMB, unless otherwise required by subpoena or applicable law.

Termination of Agreement -

A. Termination Without Cause. COMB at any time may terminate this Agreement or any Task Order for any reason, without cause and without penalty, upon providing to Consultant thirty (30) days' prior written notice of such termination. Such termination shall not relieve COMB from responsibility for payment for services rendered by Consultant prior to the date of termination, but shall relieve COMB of its obligations for full payment of compensation due under this Agreement or a Task Order for Consultant's services rendered after the notice of termination.

B. Termination With Cause. COMB may terminate this Agreement or any Task Order for cause, effective immediately upon providing written notice to Consultant, based upon the occurrence of any of the following events: (1) material breach of this Agreement, Task Order or Task

by Consultant; (2) abandonment or lack of diligence in performance of the work by Consultant; (3) cessation, revocation or expiration of any license needed by Consultant to provide services hereunder; (4) failure of Consultant to substantially comply with any federal, state or local law or regulation applicable to the work hereunder; (5) filing by or against Consultant of any petition under any law for relief of debtors; and (6) conviction of Consultant or its principal representative or personnel of any crime other than minor traffic offenses.

C. Reletting of Work. In the event of termination as provided in this section, COMB without penalty may relet the work to another Consultant or perform such work itself.

Completed Work - In the event of completion or early termination of this Agreement, Consultant shall at COMB's request promptly surrender and turn over to COMB all completed work, work in progress, and all writings (as defined in the preceding paragraph) developed, prepared, assembled or acquired by Consultant during the performance of its services hereunder. Consultant may retain copies of its work product as a part of Consultant's record of professional activity. COMB acknowledges that its use of any incomplete work shall be at its own risk.

Examination of Records - Consultant agrees that COMB shall have access to and the right to examine at any reasonable time and on reasonable notice Consultant's writings, documents, papers and records, including accounting records, relating to or involving this Agreement.

Indemnification - To the fullest extent permitted by law, Consultant shall defend, indemnify and hold COMB and its Governing Board members, officers, employees and agents from and against:

A. All claims, damages, lawsuits, actions, costs, expenses, losses or liabilities (including reasonable attorneys' fees and costs incurred in litigation) (hereinafter collectively "claims") of any persons which arise out of, pertain to, or relate to the negligence, recklessness or willful misconduct of Consultant, or its sub-consultants or others for whom Consultant is legally liable, in the performance (or actual or alleged nonperformance) of professional services under this Agreement. Consultant's obligations regarding COMB's defense under this paragraph shall include only the reimbursement of COMB's reasonable defense costs incurred to the extent of Consultant's judicially determined negligence.

B. Other than in the performance of professional services, all claims arising out of the performance of services or furnishing of materials, including but not limited to claims by the Consultant or its employees or sub-consultants or their employees for damages to persons or property, to the extent and in proportion of Consultant's negligence, recklessness or willful misconduct related to services under this Agreement.

C. All actions, proceedings, damages, costs, expenses, penalties, fines, or liabilities, in law or equity, of every kind and nature whatsoever, arising out of, resulting from, or on account of any violation by Consultant of any applicable federal, state or local governmental law or regulation related to services under this Agreement.

D. Submission of insurance certificates or other proof of insurance shall not relieve Consultant from liability under these provisions. Consultant's indemnification obligations herein shall apply

whether or not Consultant's insurance policies shall have been determined to apply to any such claims. These indemnification obligations shall survive the expiration or termination of this Agreement or any Task Order.

Laws, Regulations and Permits – Consultant, at its expense, shall give all notices and obtain all permits required by law and comply with all laws, ordinances, rules and regulations pertaining to the conduct of the work. Consultant shall be liable for all violations of the law in connection with work furnished by Consultant. If Consultant observes that the drawings or specifications are at variance with any law or ordinance, rule or regulation, he/she shall promptly notify the COMB engineer in writing and any necessary changes shall be made by written instruction or change order. If Consultant performs any work knowing it to be contrary to such laws, ordinances, rules or regulations and without giving notice to COMB, Consultant shall bear all costs arising therefrom.

Safety - Consultant shall execute and maintain his/her work so as to avoid injury or damage to any person or property. In carrying out his/her work, Consultant shall at all times exercise all necessary precautions for the safety of employees appropriate to the nature of the work and the conditions or requirements under which the work is to be performed, and shall be in compliance with all applicable federal, state and local statutory and regulatory requirements including California Department of Industrial Relations (Cal/OSHA) regulations.

Liability Insurance - Consultant shall provide and maintain at all times during the performance of the services under this agreement, the following commercial general liability, professional liability and automobile liability insurance:

Coverage - Coverage shall be at least as broad as the following:

- a. Coverage for Professional Liability appropriate to the Consultant's profession covering Consultant's negligent actions, errors or omissions. The retroactive date (if any) is to be no later than the effective date of this agreement.
- b. Insurance Services Office (ISO) Commercial General Liability Coverage (Occurrence Form CG 0001) or insurer's equivalent.
- c. Insurance Services Office (ISO) Business Auto Coverage (Form CA 0001), covering Symbol 1 (any auto).

Limits - The Consultant shall maintain limits no less than the following:

1. Professional Liability - One million dollars (\$1,000,000) per claim and annual aggregate.
2. General Liability - One million dollars (\$1,000,000) per occurrence for bodily injury, personal injury and property damage. If Commercial General Liability Insurance or other form with a general aggregate limit or products-completed operations aggregate limit is used, either the general aggregate limit shall apply separately to the project/location (with the ISO CG 2503 or

ISO CG 2504, or insurer's equivalent endorsement provided to COMB or the general aggregate limit and products-completed operations aggregate limit shall be twice the required occurrence limit.

3. Automobile Liability - One million dollars (\$1,000,000) for bodily injury and property damage each accident limit.

Required Provisions - The general liability and automobile liability policies are to contain, or be endorsed to contain, the following provisions:

1. COMB, its Governing Board members, officers, employees and agents are to be given insured status (via ISO endorsement CG 2010, CG 2033, or insurer's equivalent for general liability coverage) as respects: liability arising out of the activities performed by or on behalf of Consultant; products and completed operations of Consultant; premises owned, occupied or used by the Consultant; and automobiles owned, leased, hired or borrowed by Consultant. The coverage shall contain no special limitations on the scope of protection afforded to COMB, its Governing Board members, officers, employees, or agents.
2. For any claims related to the project, Consultant's insurance shall be primary insurance as respects COMB, its Governing Board members, officers, employees, or agents. Any insurance, self-insurance, or other coverage maintained by COMB, its Governing Board members, officers, employees, or agents shall not contribute to it.
3. Any failure to comply with reporting or other provisions of the policies including breaches of warranties shall not affect coverage provided to COMB, its Governing Board members, officers, employees, or agents.
4. Consultant's insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability.
5. Each insurance policy required by this agreement shall state, or be endorsed to state, that coverage shall not be canceled by the insurance carrier or Consultant, except after thirty (30) days (10 days for non-payment of premium) prior written notice by U.S. mail has been given to COMB.

Such liability insurance shall indemnify Consultant and his/her sub-consultants against loss from liability imposed by law upon, or assumed under contract by, Consultant or his/her sub-consultants for damages on account of such bodily injury (including death), property damage, personal injury, completed operations, and products liability.

The general liability policy shall cover bodily injury and property damage liability, owned and non-owned equipment, blanket contractual liability, completed operations liability, explosion, collapse,

underground excavation, and removal of lateral support.

The automobile liability policy shall cover all owned, non-owned, and hired automobiles.

All of the insurance shall be provided on policy forms and through companies satisfactory to COMB.

Deductibles and Self-Insured Retentions - Any deductible or self-insured retention must be declared to and approved by COMB.

Acceptability of Insurers - Insurance is to be placed with insurers having met current A.M. Best rating of no less than A:VII or equivalent or as otherwise approved by COMB.

Workers' Compensation Insurance - By his/her signature hereunder, Consultant certifies that he/she is aware of the provisions of Section 3700 of the California Labor Code which requires every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that code, and he/she will comply with such provisions before commencing the performance of the work of this agreement.

Workers' Compensation and Employer's Liability Insurance - Consultant and all sub-consultants shall cover or insure under the applicable laws relating to workers' compensation insurance, all of their employees employed directly by them or through sub-consultants in carrying out the work contemplated by this Agreement or any Task Order, in accordance with the "*Workers' Compensation and Insurance Act*," Division IV of the Labor Code of the State of California and any Acts amendatory thereof. Consultant shall provide employer's liability insurance in the amount of at least \$1,000,000 per accident, \$1,000,000 disease policy limit, and \$1,000,000 disease each employee.

Evidences of Insurance - Prior to execution of the agreement, Consultant shall file with COMB a certificate of insurance (Acord Form 25-S or equivalent) signed by the insurer's representative evidencing the coverage required by this Agreement. Such evidence shall include an additional insured endorsement signed by the insurer's representative. Such evidence shall also include confirmation that coverage includes or has been modified to include Required Provisions 1 through 5.

Consultant shall, upon demand of COMB, deliver to COMB such policy or policies of insurance and the receipts for payment of premiums thereon.

Continuation of Coverage – If any of the required coverages expire during the term of this Agreement, Consultant shall deliver the renewal certificate(s) including the general liability additional insured endorsement to COMB at least ten (10) days prior to the expiration date.

Sub-consultants - In the event that Consultant employs other consultants (sub-consultants) as part of the services covered by this Agreement, it shall be Consultant's responsibility to require and confirm that each sub-consultant meets the minimum insurance requirements specified herein.

Notices - All notices, requests, demands and other communications under this Agreement shall be in writing and shall be deemed to have been duly given on the date of service if personally served or on the second day after mailing if mailed by first-class mail, registered or certified, return receipt

requested, postage prepaid and properly addressed to the signatories of the parties as set forth above. Any party may change their address for the purpose of this paragraph by giving the other party written notice of the new address in the above manner.

Anti-Discrimination - Consultant shall not exclude from its employment in the performance of this Agreement any person on the grounds of race, creed, color, sex, age, marital status, sexual orientation or place of national origin. Consultant shall comply with all applicable local, state and federal laws relating to equal employment opportunity rights.

No Assignment - This Agreement is for personal services. Consultant shall not assign its duties or obligations hereunder without the prior written consent of COMB, which may be withheld by COMB for any reason in its sole discretion.

No Waiver - No failure by COMB in asserting any of its rights or remedies as to any default of Consultant shall operate as a waiver of the default, or any subsequent or other default by Consultant, or of any of COMB's rights or remedies. No such delay shall deprive COMB of its right to institute and maintain any actions or proceedings which may be necessary to protect, assert, or enforce any rights or remedies arising out of this Agreement or the performance thereof.

Partial Invalidity - If any term, covenant, condition or provision of this Agreement is found by a court of competent jurisdiction to be invalid, void or unenforceable, the remainder of the provisions herein shall remain in full force and effect and shall not be affected, impaired or invalidated thereby.

Integration - No alteration or variation of the terms of this Agreement shall be valid unless made in writing and signed by the parties. No oral understanding or agreement not incorporated herein shall be binding on any of the parties.

California Law - This Agreement shall be interpreted and construed pursuant to the laws of the State of California. Any dispute between the parties shall be filed and heard in a court of competent jurisdiction in the County of Santa Barbara.

COMB Employees - Consultant agrees that no employee of COMB shall be employed by Consultant during the period this Agreement is in effect.

This Professional Services Agreement shall become a valid contract only when accepted by Consultant, and subsequently by COMB, and together with the Consultant's Proposal shall constitute the entire agreement between the parties, with the terms, conditions and definitions set forth in this eight-page document governing and controlling the enforcement of that contract.

PROFESSIONAL SERVICES AGREEMENT
CACHUMA OPERATION & MAINTENANCE BOARD

EXHIBIT A

(lists Consultant & Project, followed by proposal)

THIS PAGE INTENTIONALLY LEFT BLANK



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."*

June 24, 2019

General Manager Report

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

Administration

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

The Santa Barbara County IRWMP sub-committee met in late May to consider project appeals and refine the project scoring matrix. A final project scoring table was released by the sub-committee to be ratified at the next IRWMP meeting to be held in June. COMB's submitted project (Water Quality and Sediment Management Study) received an increased score by the sub-committee during the appeals process, however, was ranked lowest of the three final South Coast watershed projects submitted.

- **Comprehensive Annual Financial Report (Audit) for Fiscal Year 2018-19**

Bartlett, Pringle & Wolf, LLP is scheduled to begin the annual comprehensive financial audit for fiscal year ending June 30, 2019. The audit is comprised of review of the statement of net position as of June 30, 2019, related statements of revenue, expenses and changes in net position, cash flows for the year then ended, and the related notes to the financial statements. In addition, the auditors will perform two single audits related to the California Department of Fish and Wildlife grant funding received for the Quiota Creek fish passage improvement projects at crossings five and nine. The audits will be conducted in accordance with audit requirements imposed by the Single Audit Act and Subpart F of Title 2, U.S. Code of Federal Regulations (CFR) Part 200, Uniform Administrative Requirements, cost principles, and audit requirements for federal awards.

- **California Financing Coordinating Committee (CFCC) Funding Fair**

Staff attended a free funding fair sponsored by the California Financing Coordinating Committee (CFCC) with various presenters including the U.S. Department of Agriculture and Rural Development (USDA), the Bureau of Reclamation (BOR), the California State Water Resources Control Board (SWRCB), and the California Department of Water Resources (DWR), among other agencies. The purpose of the funding fair was to provide an opportunity to learn about available grant, loan and bond financing options for infrastructure projects. The funding fairs are directed toward local government representatives, water and irrigation district managers, economic development and engineering professionals, financial advisors, and project consultants. Staff is in the process of developing a grant opportunities matrix to identify potential funding resources available for COMB infrastructure improvement projects.

Personnel

- **Staff Training**

Management staff has enrolled in sexual harassment prevention training to be held at the Carpinteria Valley Water District in August. The two hour program will satisfy California requirements for management training as established by AB 1825, AB 2053 and AB 1661. In addition, COMB's CFO has enrolled in a California Society of Municipal Finance Officers (CSMFO) Governmental Accounting Standards Board (GASB) webinar update which will include topics such as Financial Reporting Model, Revenue and Expense recognition, and Disclosure Framework.

- **ESRI Conference**

COMB staff is scheduled to make a presentation at the 2019 ESRI User Conference upcoming in July. The session "Sediment Deposition Analysis Utilizing GIS Technologies, Lake Cachuma" will focus on analyzing sedimentation trends within Lake Cachuma since the construction of Bradbury Dam until present. COMB staff has successfully digitized a 1954 bathymetric survey, resulting in a reconstructed storage capacity estimate within 0.4% of the original USBR calculation. When compared with the most recent bathymetric survey performed in 2013, long-term sediment deposition trends and areas of concentrated storage loss can be identified. The value of the project will be derived from being able to estimate the magnitude, mode, and location of future sedimentation based on historical patterns. The study could provide watershed-wide information for designing sediment/erosion control projects at key locations around the lake if pursued in the future. COMB's ESRI presentation will focus on the technical aspects of the analysis, including GIS tools and methods utilized.

U.S. Bureau of Reclamation

- **Hilton Creek Watering System**

The Hilton Creek Watering System repairs are currently underway by Reclamation. Reclamation divers using remote operated vehicle assistance were deployed in early June to assess the snorkel repair. The divers were successful in retrieving the snorkel device with a grappling hook and re-attached the cabling to the intake platform at the appropriate depth. The previously ordered electronic transformer arrived but was unable to be installed due to the size of the encasement cabinet. A new transformer has been ordered which will fit into the encasement cabinet on the pumping platform. Reclamation may achieve the completed repair within the next few months.

Respectfully Submitted,

Janet Gingras
General Manager

CACHUMA OPERATION AND MAINTENANCE BOARD

MEMORANDUM

DATE: June 24, 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

The Santa Barbara County year-to-date rainfall is 128 percent of normal (as of June 17, 2019). The inflow into Lake Cachuma has exceeded 100,000 AF in Water Year 2018-2019. El Niño is predicted to persist in the Northern Hemisphere through the summer of 2019 (66% chance), with lower odds of continuing through the fall and winter (50-55% chance) according to the National Weather Service Climate Prediction Center. The antecedent moisture index at Gibraltar Dam is 9.7 indicating dry soil conditions. Gibraltar Reservoir is at 95% capacity with water releases occurring in June related to the Gin Chow releases which will contribute to some inflow into Lake Cachuma.

LAKE WATER QUALITY AND SEDIMENT MANAGEMENT STUDY

Additional nutrient and algal sampling is being conducted by COMB staff during the summer months to fill in data gaps in the existing sampling program with advisement from Woodard & Curran consultants. The technical review team is meeting in June to discuss data trends and analyses. COMB staff completed a digital reconstruction of the 1954 bathymetry to assist with the study. The reconstruction allows an increased spatial understanding of sedimentation deposits over the history of Lake Cachuma. The gain/loss in reservoir depth from 1954 to 2013 is shown in Figure 1.

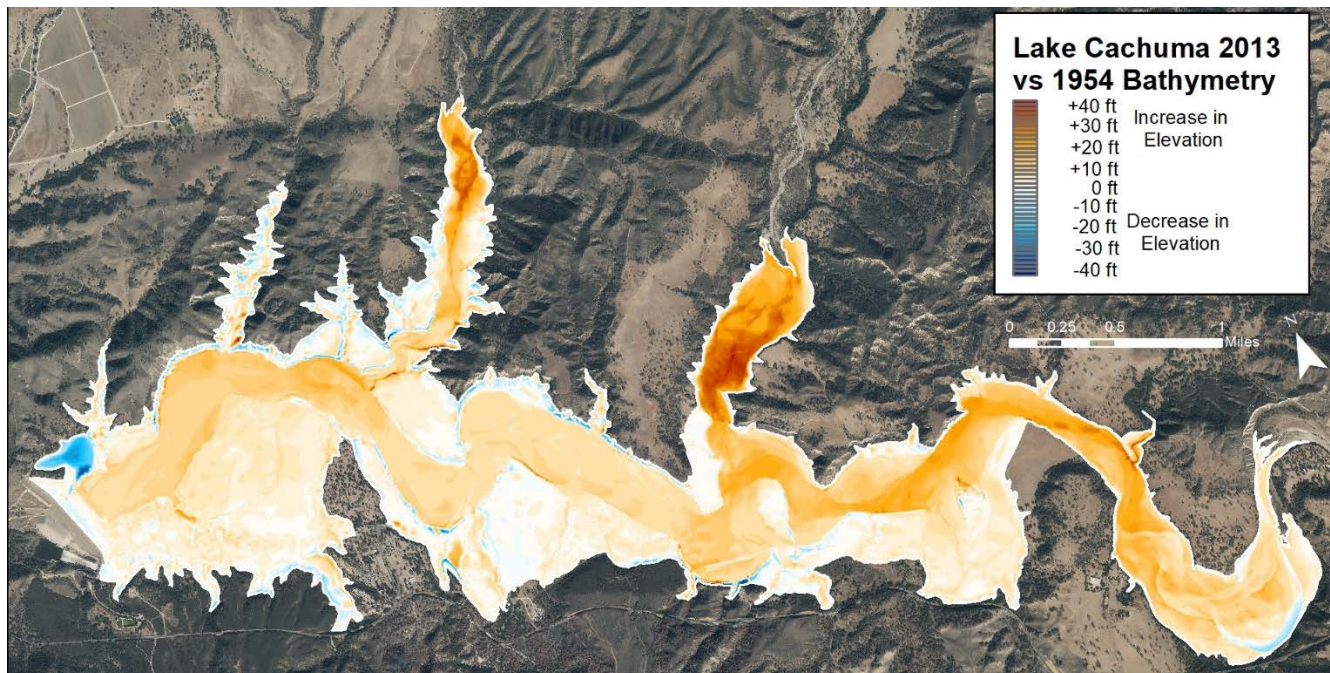


Figure 1. Comparison of 1954 and 2013 Bathymetric Surveys

INFRASTRUCTURE IMPROVEMENT PLAN PROJECT STATUS

Table 1 provides a summary of the FY 2018-2019 Infrastructure Improvement Projects. COMB staff continues to work on the Infrastructure Improvement Plan update developing project descriptions and ranking criteria. This information will be presented to Member Agencies' staff for review once completed.

Table 1. Infrastructure Improvement Projects Status

Infrastructure Improvement Projects	Status / Phase	Complexity / Challenges	Estimated Completion Date
Infrastructure Improvement Projects			
Sycamore Canyon Slope Stabilization	Pre-contract conference occurred on June 6th and construction contract was executed. Construction activities are scheduled to start in early July.	Several components (permitting, potential for winter rains, and grant funding) resulted in a delay of the project to 2019.	End of September 2019
SCC Structure Rehabilitation (AVAR/BO)	Schedule D and E air vent and blowoff structures were reviewed by COMB staff. COMB staff is working with Schedule A/B/C contractor on quote for D/E based on previous bid.	Work in Montecito may require a line valve to facilitate shutdowns.	Schedule A, B, C completed. Schedule D and E planned for winter 2019-2020.
Lateral 3 Repair	Construction was completed in early December.	This project required a 7-day shutdown and welders to enter the SCC and travel ~1000 feet.	Completed in December 2018.
Rehabilitate San Antonio Creek Blow-off	Valves and piping were replaced in early December 2018. A minor amount of additional work is needed to install the floorstands and stem extensions.	The valves were replaced in 2018. Floorstands were not installed due to a delay in shipment in the stem extensions.	Valves replaced in December 2018, with minor finish work to be completed in June 2019
SCC Line Valves for Shutdown	The isolation valve would be installed as part of the planned AVAR/BO work in the Montecito Area next winter. Engineering plans will be developed in spring based on previously installed in-live valves. However, the in-line valve installation will likely not require a bypass.	Additional line valves in the SCC could better facilitate planned maintenance activities.	Draft Design by June 2019
SCC Structure Rehabilitation : Lower Reach Laterals	The engineering work assessing the condition and existing design of each lateral turnout is ongoing.	In order to facilitate shutdowns on the Lower Reach of the SCC, lateral valves may need replacement.	Plan/Design by June 2019
Special Projects			
Emergency Pumping Facility Project	Key components barge are currently being stored under contract. Change Order 18 was completed to continue to store these components as part of the EPFP contract at one half the previous storage costs. The pipeline to reach Site 1 was floating in the lake and relocated to the high-level lake shoreline in April.	With the increase in lake levels, the lake elevation is projected to remain above 685 until the Summer/Fall 2021.	TBD
Lake Cachuma Water Quality and Sediment Management Study	The 2nd Technical Review meeting occurred in mid-June to review issues characterization and trend assessment.	Recent wildfires and subsequent storm events have resulted in decreased water quality and increased sedimentation into Lake Cachuma.	June 2020

MONTHLY REPORT OF OPERATIONS – MAY 2019

The total flow from Lake Cachuma into the Tecolote Tunnel for May was 781 acre-feet, for an average daily flow of 25.2 acre-feet. Lake elevation was 739.89 feet at the beginning of May and 740.21 feet at the end of May. Storage change increased 907 acre-feet. CCWA wheeled 0 acre-feet of water to Cachuma Project facilities. The Hilton Creek Watering System was not operational in the month of May, due to issues with electrical system on the pumping barge and intake system. 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 activities completed during the month of May were as follows:

- Conducted six flow changes at the North Portal during the month of May (3 at surface and 3 in gate chamber)
- Performed annual structure maintenance on 13 structures in the lower reach
- Responded to 117 USA Dig alerts
- Reviewed 3 projects (lower reach) for right of way conflicts
- Continued weed abatement and defensible space clearing at Glen Anne Reservoir, Ortega Reservoir and Carpinteria Reservoir
- 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)
- Operational tested generators at the North Portal and at Lauro Yard
- Read anodes and rectifier data

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

- During the month of May, Lauro Reservoir reached an elevation of 550 feet which required additional reservoir inspections per the standard operating procedures for four days. COMB staff requested that

the City of Santa Barbara temporarily reduce inflows from the Gibraltar Penstock to lower the reservoir elevation.

- Assisted with the upgrade of the Field Mapplet server which provides USA Dig Alerts and is used for tracking of structure maintenance activities.
- Repaired additional sections of the log boom surrounding the North Portal intake tower with new shackles.
- Provided generator backup power to Goleta West and Glen Anne Turnout for Southern California Edison planned power outage on two occasions
- Cleared brush and debris from drainage ditch below Corona Del Mar Treatment Plant
- Replaced UPS batteries at Carpinteria, Sheffield, and Glen Anne PLCs
- Assisted Quinn Caterpillar with annual load test and backup generator service at the North Portal and at Glen Anne Turnout
- Maintained access roads for oak tree program near plantings at Storke Flat and Bradbury Dam
- Contractor performed load test on North Portal Tower hoist
- Elevator earthquake safety test conducted by Otis Elevator
- Lauro Yard fire extinguishers checked

Lower Reach Structure Maintenance



Traffic control required in street



CACHUMA OPERATION AND MAINTENANCE BOARD

BOARD MEMORANDUM

DATE: June 24, 2019
TO: Janet Gingras, General Manager
FROM: Tim Robinson, Fisheries Division Manager
RE: MONTHLY FISHERIES DIVISION REPORT

HIGHLIGHTS:

- USBR continues to deliver approximately 3 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) and were able to retrieve the intake snorkel from the bottom and secure it to the Intake Barge at the appropriate depth. Further needed repairs to the system have been identified with no specific date determined for implementation.

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

LSYR Steelhead Monitoring Elements:

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

Migrant Trapping: The 2019 Trapping Plan was provided to Reclamation in January who then submitted it to NMFS. This monitoring effort normally begins in January and continues through May depending on streamflow rates. This year the Hilton Creek and Salsipuedes Creek traps were installed on 1/23/19 and removed on 5/15/19 to end the trapping season. The LSYR Mainstem Trap was installed in association with the Passage Supplementation Program on 2/7/19 and removed on 3/27/19 due to low flow. Traps are removed during high flow events for safety of the staff, fishery and equipment, or if flows are too low to enable migration. The Santa Ynez River Lagoon opened on 1/18/19 and closed on 5/7/19 during which time the river was connected to the ocean. Results of the trapping program are presented in the Annual Monitoring Report.

Redd Surveys: Redd surveys are conducted every two weeks from mid-January through May. Surveys are conducted within the LSYR mainstem in the Highway 154, Refugio, and Alisal reaches where access is permitted, and certain sections of Hilton, Quiota, and Salsipuedes/El Jaro creeks. Spawning activity has only been observed so far in Hilton Creek in multiple locations and in Quiota Creek. Many young of the year *O. mykiss* have been observed throughout the wetted section of Hilton Creek. The number of redds is reported in the Annual Monitoring Plan.

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

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

Tributary Project Updates:

Quiota Creek Crossing 8: Funding for this project has been secured through a CDFW-FRGP grant that was submitted on 3/29/18 for \$1,010,700 with a \$50,000 construction match from COMB as approved by the COMB Board during the 2/26/18 Board meeting. COMB was awarded this grant on 12/5/18 and the Board accepted the grant by resolution on 1/28/19. Staff 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 flood certifications.

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 has visited the HCWS several times in May and June to further assess the situation with their inoperable system. On 6/10/19, USBR staff was able to use an ROV to grab the lifting cable for the intake snorkel hose on the HCWS and secure it with a new cable to the Intake Barge at the appropriate lake depth. On 6/18/19, USBR attempted to fill the HCWS delivery pipe without success. Electrical repairs to the Pumping Barge will be worked on in the future. The timeframe on those identified repairs has yet to be determined. Currently USBR is delivering water to the 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 above. Passage Supplementation was initiated in February and ended in March hence debited waters are reflected in the table.

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

Accounts*	Allocation	Amount Used**	Amount Remaining
Units:	(acre-feet)	(acre-feet)	(acre-feet)
Fish Passage Supplementation	3,200	3,307	-107
Adaptive Management	500	149	351
Fish Rearing***	5,484	5,484	0
Project Yield		16,000	
Total:	9,184	24,939	244
* Originally was 9,200 af, 8,942 af in 2008 and 9,184 af in 2013.			
** Values as of 5/31/19.			
*** 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 Garello) – Design and reporting work for the Quiota Creek Crossings 5, 8 and 9 projects.

THIS PAGE INTENTIONALLY LEFT BLANK

CACHUMA OPERATION & MAINTENANCE BOARD

BOARD MEMORANDUM

Date:	June 24, 2019
Submitted by:	Tim Robinson and Scott Volan
Approved by:	Janet Gingras

SUBJECT: Progress Report on Lake Cachuma Oak Tree Program

SUMMARY:

Maintenance

This memorandum on the Lake Cachuma Oak Tree Restoration Program reflects maintenance completed since July, 2018 to the present (7/1/18 – 6/24/19, Table 1). Labor and expenses for the entire fiscal year (July 2018 - June 2019) as well as water usage will be tracked separately and reported as necessary as recommended by the Lake Cachuma Oak Tree Committee. COMB staff continues to rely on the Fisheries Division seasonal employees to conduct the majority of oak tree work in the field. The 2015 Lakeshore Inventory was completed and reviewed by the Lake Cachuma Oak Tree Committee on 2/25/16, which set the mitigation number for the program. The 2017 Annual Inventory and Fiscal Year 2017-2018 Financial Report has been reviewed and approved by the Lake Cachuma Oak Tree Committee on 8/1/18 with suggested recommendations for the upcoming fiscal year.

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

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

¹ Stressed trees irrigated.

² Oak tree inventory (Year 1-9).

³ Oak tree inventory (Year 10).

The irrigation season is now in full swing. Year 9 and Year 10 trees have just been watered and weeded. Fisheries Division personnel are now watering the Year 7 and Year 8 trees at Bradbury Dam, the Santa Barbara County Park and Storke Flat. Crews are hand weeding inside of the cages during irrigation. Two irrigation teams are be utilized whenever possible to cover more ground as quickly as possible throughout the dry season.

The COMB Operations crew has been assisting the Fisheries Division staff in mowing and grading the oak tree access roads within the planting areas around Bradbury Dam and within Storke Flat. This effort will continue for another week. This is done on an annual basis as a fire safety precaution to prevent weeds from coming into contact with the undercarriage of vehicles while servicing the oak trees.

RECOMMENDATION:

For Board information only.

LIST OF EXHIBITS:

CACHUMA OPERATION AND MAINTENANCE BOARD

METERED USE REPORT FOR MAY 2019

LATERAL/ STATION	NAME	ACRE FEET METERED	LATERAL/ STATION	NAME	ACRE FEET METERED
CARPINTERIA WATER DISTRICT			GOLETA WATER DISTRICT		
Boundary Meter - East		264.42	18+62	G. WEST	85.02
Boundary Meter - West		(0.05)	78+00	Corona Del Mar FILTER Plant	415.95
			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		500.97
			MONTECITO WATER DISTRICT		
			260+79	BARKER PASS	61.64
			386+65	MWD YARD	14.49
			487+07	VALLEY CLUB	0.00
			499+65	E. VALLEY-ROMERO PUMP	24.37
			510+95	MWD PUMP (SWD)	10.32
			510+95	ORTEGA CONTROL	4.24
			526+43	ASEGRA RD	4.44
			555+80	CO. YARD	0.00
			583+00	LAMBERT RD	0.00
			599+27	TORO CANYON	1.41
				SWP CREDIT (Warren Act Contract)	(120.90)
			TOTAL		0.00
			CITY OF SANTA BARBARA		
			CATER	INFLOW	899.55
			Gibraltar	PENSTOCK	(449.17)
			CATER	SO. FLOW	(494.47)
			Sheffield	SHEF.LIFT	100.31
				SWP (Warren Act)	0.00
				La Cumbre Mutual SWP (Internal Transfer)	(43.00)
				La Cumbre Mutual SWP (Warren Act)	(1.00)
			TOTAL		12.22
			SANTA YNEZ RIVER WATER CONSERVATION DISTRICT, ID#1		
			COUNTY PARK, ETC		1.89
			TOTAL		1.89
			BREAKDOWN OF DELIVERIES BY TYPE:		
			STATE WATER DELIVERED TO LAKE		0.00
			STATE WATER TO SOUTH COAST (including from storage)		(164.90)
			METERED DIVERSION		779.45
SWP CREDIT (Warren Act Contract) 0.00					
TOTAL		264.37			
Note: Meter reads were taken on: 5/31/2019					

WATER YEAR 18-19 CACHUMA PROJECT ALLOCATION

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

(All in rounded Acre Feet)

CACHUMA PROJECT		
WATER PRODUCTION:	MONTH	WYTD
Cachuma Lake (Tec. Diversion)	781.4	6,804.3
Tecolote Tunnel Infiltration	99.6	679.1
Cachuma Lake (County Park)	1.9	12.6
Subtotal - Water Production	882.8	7,496.0
WATER DELIVERIES:		
State Water Diversion	164.9	4,894.4
Cachuma Diversion	779.5	2,580.2
Storage gain/(loss)	(47.3)	9.4
Subtotal - Water Deliveries	897.1	7,484.0
Total Water Production	882.8	7,496.0
Total Water Deliveries	897.1	7,484.0
Difference = Apparent Water Loss	(14.3)	11.9
% Apparent Water Loss	-1.62%	0.16%

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⁾					9.7
Total AWL Incurred (WYTD)					11.9

CACHUMA PROJECT WATER CHARGE

	GWD	SB CITY	MWD	CVWD	SYRID #1	TOTAL
CURRENT MONTH						
Water Usage						
M&I	405.8	12.2	0.0	134.3	1.9	554.2
Agricultural	95.2	0.0	0.0	130.1	N/A	225.3
Subtotal Project Water Use	501.0	12.2	0.0	264.4	1.9	779.5
(+) Apparent Water Loss	0.0	0.0	0.0	0.0	N/A	0.0
(+) Evaporative Loss ⁽⁴⁾	17.4	52.6	14.2	7.1	0.0	91.3
Total Project Water Charge	518.3	64.8	14.2	271.5	1.9	870.7
WATER YEAR-TO-DATE						
Water Usage						
M&I	1,355.7	369.3	0.0	241.9	12.6	1,979.6
Agricultural	349.9	0.0	0.0	250.3	N/A	600.2
Subtotal Project Water Use	1,705.6	369.3	0.0	492.2	12.6	2,579.8
(+) Apparent Water Loss	(0.3)	(2.1)	0.0	0.0	N/A	(2.3)
(+) Evaporative Loss ⁽⁴⁾	160.2	369.0	98.1	61.0	1.6	689.9
Total Project Water Charge (*)	1,865.5	736.3	98.1	553.2	14.2	3,267.4

(*) 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 **MAY 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)	1,865.5	736.3	98.1	553.2	14.2	3,267.4
Balance Carryover Water	1,905.8	6,527.9	1,766.0	752.0	26.2	10,977.8
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)	0.0	0.0	0.0	0.0	0.0	0.0
Net Allocation Available Before Adjustments	9,322.0	8,277.0	2,651.0	2,813.0	2,651.0	25,714.0
<u>Adjustments to Net Allocation (WYTD)</u>						
Carryover Balances Spilled	0.0	0.0	0.0	0.0	0.0	0.0
Surplus	0.0	0.0	0.0	0.0	0.0	0.0
State Water Exchange ⁽⁶⁾	123.0	82.0	81.0	54.0	(340.0)	0.0
Transfers/Adjustment ^{(7),(8)}	100.0	(82.0)	0.0	0.0	0.0	18.0
Balance Current Year Allocation	9,545.0	8,277.0	2,732.0	2,867.0	2,311.0	25,732.0
Total Cachuma Project Water Available	11,450.8	14,804.9	4,498.0	3,619.0	2,337.2	36,709.8

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 64 AF; City of SB received 43 AF; MWD received 42 AF and CVWD received 28 AF from ID#1 in May 2019.
- (7) Transfer per Contract for Exchange Water with Thomas B. Bishop Company and GWD (100 AF)
- (8) Transfer per Santa Ynez Exchange Agreement with City of SB and La Cumbre Mutual Water Agency (43 AF) in May 2019.
- (9) Memo only - State Water Deliveries to Lake Cachuma for May 2019 was zero.

THIS PAGE INTENTIONALLY LEFT BLANK

CACHUMA OPERATION AND MAINTENANCE BOARD
WATER STORAGE REPORT

MONTH: **MAY 2019**

GLEN ANNIE RESERVOIR ⁽¹⁾

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

LAURO RESERVOIR

Capacity at 549' elevation:	503	AF
Capacity at top of intake screen, 520' elevation:	106.05	AF
Stage of Reservoir Elevation	544.00	Feet
Water in Storage	409.32	AF

ORTEGA RESERVOIR

Capacity at 460' elevation:	65	AF
Capacity at outlet at elevation 440':	0	AF
Stage of Reservoir Elevation	449.60	Feet
Water in Storage	27.97	AF

CARPINTERIA RESERVOIR

Capacity at 384' elevation:	45	AF
Capacity at outlet elevation 362':	0	AF
Stage of Reservoir Elevation	375.50	Feet
Water in Storage	24.59	AF

TOTAL STORAGE IN RESERVOIRS ⁽¹⁾

Change in Storage	461.89	AF
	(50.62)	AF

CACHUMA RESERVOIR

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

Stage of Reservoir Elevation	740.21	Feet
Water in Storage	156,321	AF
Surface Area	2,667	
Evaporation	1,051.2	AF
Inflow	2,813.4	AF
Downstream Release WR8918	0.0	AF
Fish Release (Hilton Creek)	183.2	AF
Outlet	239.1	AF
Spill/Seismic Release	0	AF
State Water Project Water	0	AF
Change in Storage	907	AF
Tecolote Diversion	781.4	AF

Rainfall:	Month:	1.57	Season:	23.78	Percent of Normal:	120%
------------------	---------------	------	----------------	-------	---------------------------	------

(1) The Glen Annie Reservoir is currently offline and is excluded from the Total Storage in Reservoirs amount.

THIS PAGE INTENTIONALLY LEFT BLANK

THIS PAGE INTENTIONALLY LEFT BLANK

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. 05/31/19

Month	CARRYOVER WATER		CURRENT YEAR ALLOCATION										
	Carryover Balance Prior Yr	Approved Allocation Curr Yr	TOTAL WATER USED			WATER USE CHARGED			WATER USE CHARGED				
			Acre-feet			Allocation			Allocation				
			M & I	Agr	Total	Evap	Used	Total	M & I	Agr	M & I	Agr	Total
Oct	3,771.3	1,864.0	276.5	78.0	354.5	44.7	354.5	399.2	311.4	87.8	0.0	0.0	0.0
Nov			293.6	87.7	381.4	29.7	381.4	411.1	316.5	94.5	0.0	0.0	0.0
Dec			0.0	12.4	12.4	13.6	12.4	26.0	0.0	26.0	0.0	0.0	0.0
Jan			0.0	9.8	9.8	11.7	9.8	21.5	0.0	21.5	0.0	0.0	0.0
Feb			0.0	3.8	3.8	8.2	3.8	12.1	0.0	12.1	0.0	0.0	0.0
Mar		7,458.0	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			-	-	-	-	-	-	-	-	-	-	-
Jul			-	-	-	-	-	-	-	-	-	-	-
Aug			-	-	-	-	-	-	-	-	-	-	-
Sep			-	-	-	-	-	-	-	-	-	-	-
Total	3,771.3	9,322.0	1,355.5	349.9	1,705.4	160.2	1,705.4	1,865.5	1,444.8	420.8	0.0	0.0	0.0

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

Month	SCHEDULE AND REVISIONS			SCHEDULE AND REVISIONS		
	Total	Allocation		Allocation		Total
		M & I	Agr	M & I	Agr	
Oct	3,771.3	2,518.4	1,252.9	1,254.0	610.0	1,864.0
Nov	-	-	-	-	-	-
Dec	-	-	-	-	-	-
Jan	-	-	-	-	-	-
Feb	-	-	-	-	-	-
Mar	Mid-Year Allocation	-	-	5,017.3	2,440.7	7,458.0
Apr	Bishop Ranch Exch (+100AF) + ID# 1 Exch (+59AF)	-	-	135.5	23.5	159.0
May	ID# 1 Exch (+64AF)	-	-	36.5	27.5	64.0
Jun	-	-	-	-	-	-
Jul	-	-	-	-	-	-
Aug	-	-	-	-	-	-
Sep	-	-	-	-	-	-

Month	BALANCE - CARRYOVER WATER			BALANCE - CURR YR ALLOC		
	Total	Allocation		Allocation		Total
		M & I	Agr	M & I	Agr	
Oct	3,372.1	2,207.0	1,165.1	1,254.0	610.0	1,864.0
Nov	2,961.0	1,890.5	1,070.5	1,254.0	610.0	1,864.0
Dec	2,935.0	1,890.5	1,044.5	1,254.0	610.0	1,864.0
Jan	2,913.4	1,890.5	1,023.0	1,254.0	610.0	1,864.0
Feb	2,901.3	1,890.5	1,010.9	1,254.0	610.0	1,864.0
Mar	2,880.4	1,890.5	989.9	6,271.3	3,050.7	9,322.0
Apr	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	1,905.8	1,073.6	832.1	6,443.3	3,101.7	9,545.0
Jul	1,905.8	1,073.6	832.1	6,443.3	3,101.7	9,545.0
Aug	1,905.8	1,073.6	832.1	6,443.3	3,101.7	9,545.0
Sep	1,905.8	1,073.6	832.1	6,443.3	3,101.7	9,545.0

TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) 11,450.8

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. 05/31/19

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	----	M & I	----	Total
93.3	0.0	93.3	89.8	93.3	183.1	183.1	0.0	0.0	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	0.0	0.0	31.2	0.0	31.2	31.2	0.0	0.0	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	0.0	0.0	19.0	0.0	19.0	19.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	34.1	0.0	34.1	34.1	0.0	0.0	0.0	0.0
26.5	0.0	26.5	50.1	26.5	76.6	76.6	0.0	0.0	0.0	0.0
12.2	0.0	12.2	52.6	12.2	64.8	64.8	0.0	0.0	0.0	0.0
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
367.3	-	367.3	369.0	367.3	736.3	736.3	-	-	-	-

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	-	-	-	-

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	----	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)				-		-	

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

BALANCE - CARRYOVER WATER				BALANCE - CURR YR ALLOC			
Month	Total	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	6,527.9	6,527.9	-	8,277.0	-	8,277.0	
Jul	6,527.9	6,527.9	-	8,277.0	-	8,277.0	
Aug	6,527.9	6,527.9	-	8,277.0	-	8,277.0	
Sep	6,527.9	6,527.9	-	8,277.0	-	8,277.0	

TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) 14,804.9

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. 05/31/19

CARRYOVER WATER	CURRENT YEAR ALLOCATION
------------------------	--------------------------------

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											
M & I	Agr	Total	Evap	Used	Total	Allocation		Allocation		Total	
						M & I	Agr	M & I	Agr		
Oct	0.0	0.0	0.0	16.2	0.0	16.2	7.4	8.8	0.0	0.0	0.0
Nov	0.0	0.0	0.0	12.0	0.0	12.0	5.5	6.5	0.0	0.0	0.0
Dec	0.0	0.0	0.0	5.9	0.0	5.9	2.7	3.2	0.0	0.0	0.0
Jan	0.0	0.0	0.0	5.1	0.0	5.1	2.3	2.8	0.0	0.0	0.0
Feb	0.0	0.0	0.0	3.6	0.0	3.6	1.6	1.9	0.0	0.0	0.0
Mar	0.0	0.0	0.0	2.4	0.0	2.4	1.1	1.3	0.0	0.0	0.0
Apr	107.6	120.2	227.8	8.6	227.8	236.5	111.7	124.8	0.0	0.0	0.0
May	134.3	130.1	264.4	7.1	264.4	271.5	137.9	133.6	0.0	0.0	0.0
Jun	-	-	-	-	-	-	-	-	-	-	-
Jul	-	-	-	-	-	-	-	-	-	-	-
Aug	-	-	-	-	-	-	-	-	-	-	-
Sep	-	-	-	-	-	-	-	-	-	-	-
Total	241.9	250.3	492.2	61.0	492.2	553.2	270.3	282.9	-	-	-

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			
	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	
Oct						-	
Nov						-	
Dec						-	
Jan						-	
Feb						-	
Mar				1,033.1	1,216.9	2,250.0	
Apr				15.6	10.4	26.0	
May				16.0	12.0	28.0	
Jun						-	
Jul						-	
Aug						-	
Sep						-	

BALANCE - CARRYOVER WATER				BALANCE - CURR YR ALLOC			
Month	Total	Allocation		Allocation		Total	
		M & I	Agr	M & I	Agr		
Oct	1,289.0	589.9	699.1	258.5	304.5	563.0	
Nov	1,276.9	584.4	692.6	258.5	304.5	563.0	
Dec	1,271.0	581.7	689.4	258.5	304.5	563.0	
Jan	1,265.9	579.3	686.6	258.5	304.5	563.0	
Feb	1,262.4	577.7	684.7	258.5	304.5	563.0	
Mar	1,259.9	576.6	683.4	1,291.6	1,521.4	2,813.0	
Apr	1,023.5	464.9	558.6	1,307.2	1,531.8	2,839.0	
May	752.0	327.0	425.0	1,323.2	1,543.8	2,867.0	
Jun	752.0	327.0	425.0	1,323.2	1,543.8	2,867.0	
Jul	752.0	327.0	425.0	1,323.2	1,543.8	2,867.0	
Aug	752.0	327.0	425.0	1,323.2	1,543.8	2,867.0	
Sep	752.0	327.0	425.0	1,323.2	1,543.8	2,867.0	

TOTAL CACHUMA PROJECT (+CARRYOVER + CURRENT YR ALLOCATION) 3,619.0

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. 05/31/19

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	M & I	Agr	Total
0.0	0.0	0.0	23.2	0.0	23.20	18.3	4.9	0.0	0.0	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	0.0	0.0	8.4	0.0	8.4	6.6	1.8	0.0	0.0	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	0.0	0.0	5.1	0.0	5.1	4.0	1.1	0.0	0.0	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	0.0	0.0	13.5	0.0	13.5	10.7	2.8	0.0	0.0	0.0
0.0	0.0	0.0	14.2	0.0	14.2	11.2	3.0	0.0	0.0	0.0
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	98.1	-	98.1	77.5	20.6	-	-	-

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	-	-	-	-

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	1,864.1	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
						-
						-
						-
						-

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

BALANCE - CARRYOVER WATER			BALANCE - CURR YR ALLOC			
Month	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	1,766.0	1,395.5	370.5	2,513.3	218.7	2,732.0
Jul	1,766.0	1,395.5	370.5	2,513.3	218.7	2,732.0
Aug	1,766.0	1,395.5	370.5	2,513.3	218.7	2,732.0
Sep	1,766.0	1,395.5	370.5	2,513.3	218.7	2,732.0

TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) **4,498.0**

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. 05/31/19**

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

TOTAL WATER USED			WATER USE CHARGED				WATER USE CHARGED			
M & I	Agr	Total	Evap	Used	Total	Allocation		Allocation		Total
						M & I	Agr	M & I	Agr	
2.3	0.0	2.3	0.5	2.3	2.8	2.8	0.0	0.0	0.0	0.0
2.0	0.0	2.0	0.3	2.0	2.3	2.3	0.0	0.0	0.0	0.0
1.3	0.0	1.3	0.2	1.3	1.5	1.5	0.0	0.0	0.0	0.0
0.9	0.0	0.9	0.1	0.9	1.0	1.0	0.0	0.0	0.0	0.0
1.5	0.0	1.5	0.1	1.5	1.6	1.6	0.0	0.0	0.0	0.0
0.9	0.0	0.9	0.2	0.9	1.1	1.1	0.0	0.0	0.0	0.0
2	-	2	0.2	1.9	2.1	2.1	0.0	0.0	0.0	0.0
2	-	2	-	2	2	2	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
12.6	0.0	12.6	1.6	12.6	14.2	14.2	0.0	0.0	0.0	0.0

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

Month
 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	40.4	40.4	-	175.0	355.0	530.0
Oct	-	-	-	-	-	-
Nov	-	-	-	-	-	-
Dec	-	-	-	-	-	-
Jan	-	-	-	-	-	-
Feb	-	-	-	-	-	-
Mar	-	-	-	-	-	-
Mid-Year Allocation	-	-	-	700.3	1,420.7	2,121.0
Apr ID #1 Exchange (-163AF)	-	-	-	(98.0)	(65.0)	(163.0)
May ID #1 Exchange (-177AF)	-	-	-	(101.0)	(76.0)	(177.0)
Jun	-	-	-	-	-	-
Jul	-	-	-	-	-	-
Aug	-	-	-	-	-	-
Sep	-	-	-	-	-	-

*NOTE:

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

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	26.2	-	676.3	1,634.7	2,311.0
Jun	-	26.2	-	676.3	1,634.7	2,311.0
Jul	-	26.2	-	676.3	1,634.7	2,311.0
Aug	-	26.2	-	676.3	1,634.7	2,311.0
Sep	-	26.2	-	676.3	1,634.7	2,311.0

TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) **2,337.2**

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. 05/31/19

Month	CARRYOVER WATER		CURRENT YEAR ALLOCATION											
	Carryover Balance Prior Yr	Approved Allocation Curr Yr	TOTAL WATER USED				WATER USE CHARGED				WATER USE CHARGED			
			Use %	M & I	Agr	Total	Evap	Div	Total	M & I	Agr	M & I	Agr	Total
Oct	14,245.2	5,142.5	0.0	372.1	78.0	450.1	174.5	450.1	624.5	523.0	101.5	0.0	0.0	0.0
Nov			0.0	530.9	87.7	618.7	124.4	618.7	743.0	638.3	104.7	0.0	0.0	0.0
Dec			0.0	1.3	12.4	13.7	59.3	13.7	73.0	42.0	31.0	0.0	0.0	0.0
Jan			0.0	0.9	9.8	10.6	51.3	10.6	61.9	36.1	25.8	0.0	0.0	0.0
Feb			0.0	1.5	3.8	5.4	36.1	5.4	41.4	26.3	15.1	0.0	0.0	0.0
Mar		20,571.5	0.0	0.9	6.2	7.2	60.6	7.2	67.8	43.6	24.2	0.0	0.0	0.0
Apr			0.0	515.5	176.9	692.4	92.5	692.4	784.9	598.0	186.9	-	-	-
May			0.0	554.2	225.3	779.5	91.3	779.5	870.7	635.7	235.0	-	-	-
Jun			-	-	-	-	-	-	-	-	-	-	-	-
Jul			-	-	-	-	-	-	-	-	-	-	-	-
Aug			-	-	-	-	-	-	-	-	-	-	-	-
Sep			-	-	-	-	-	-	-	-	-	-	-	-
Total	14,245.2	25,714.0	0.1	1,977.3	600.2	2,577.5	689.9	2,577.5	3,267.4	2,543.1	724.3	0.0	0.0	0.0

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

Month	SCHEDULE AND REVISIONS				SCHEDULE AND REVISIONS		
	Total	Allocation		Allocation		Total	
		M & I	Agr	M & I	Agr		
Oct	14,245.2	11,893.3	2,351.9	3,836.0	1,306.5	5,142.5	
Nov	-	-	-	-	-	-	
Dec	-	-	-	-	-	-	
Jan	-	-	-	-	-	-	
Feb	-	-	-	-	-	-	
Mar	20,571.5	-	-	15,345.1	5,226.4	20,571.5	
Apr	61.0	-	-	76.6	(15.6)	61.0	
May	(43.00)	-	-	(24.5)	(18.5)	(43.00)	
Jun	-	-	-	-	-	-	
Jul	-	-	-	-	-	-	
Aug	-	-	-	-	-	-	
Sep	-	-	-	-	-	-	

Month	BALANCE - CARRYOVER WATER				BALANCE - CURR YR ALLOC		
	County Parks Usage (AF)	Total	Allocation		Allocation		Total
			M & I	Agr	M & I	Agr	
Oct	2.3	13,620.7	11,370.3	2,250.4	3,836.0	1,306.5	5,142.5
Nov	2.0	12,877.6	10,731.9	2,145.7	3,836.0	1,306.5	5,142.5
Dec	1.3	12,804.6	10,689.9	2,114.7	3,836.0	1,306.5	5,142.5
Jan	0.9	12,742.7	10,653.8	2,088.9	3,836.0	1,306.5	5,142.5
Feb	1.5	12,701.3	10,627.4	2,073.8	3,836.0	1,306.5	5,142.5
Mar	0.9	12,633.5	10,583.9	2,049.6	19,181.1	6,532.9	25,714.0
Apr	1.9	11,848.5	9,985.9	1,862.7	19,257.7	6,517.3	25,775.0
May	1.9	10,977.8	9,350.2	1,627.6	19,233.2	6,498.8	25,732.0
Jun	-	10,977.8	9,350.2	1,627.6	19,233.2	6,498.8	25,732.0
Jul	-	10,977.8	9,350.2	1,627.6	19,233.2	6,498.8	25,732.0
Aug	-	10,977.8	9,350.2	1,627.6	19,233.2	6,498.8	25,732.0
Sep	-	10,977.8	9,350.2	1,627.6	19,233.2	6,498.8	25,732.0

TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) 36,709.8

CACHUMA DAILY OPERATIONS

Month & Year: June 2019
 Time of Observations: 0830 Evaporation Pan Factor: 82%

Day	Beginning Storage: 156,321			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
	<i>ft</i>	<i>acre-feet</i>	<i>acre-feet</i>	<i>acres</i>	<i>inches</i>	<i>acre-feet</i>	<i>inches</i>	<i>acre-feet</i>	<i>acre-feet</i>	<i>acre-feet</i>	<i>acre-feet</i>	<i>acre-feet</i>	<i>acre-feet</i>	<i>acre-feet</i>	<i>acre-feet</i>	<i>acre-feet</i>
1	740.20	156,294	(27)	2,667	-		0.200	36.4	-		65.0	5.9		7.6		87.9
2	740.20	156,294	-	2,667	-		0.130	23.7	-		40.0	5.9		8.6		78.2
3	740.21	156,321	27	2,667	-		0.120	21.9	-		33.1	5.9		6.7		94.6
4	740.20	156,294	(27)	2,667	-		0.180	32.8	-		31.8	5.9		8.7		52.2
5	740.20	156,294	-	2,667	-		0.210	38.3	-		30.2	5.9		6.7		81.1
6	740.19	156,241	(53)	2,666	-		0.260	47.4	-		32.7	5.9		8.6		41.6
7	740.17	156,214	(27)	2,665	-		0.240	43.7	-		31.3	5.9		7.7		61.6
8	740.16	156,187	(27)	2,665	-		0.240	43.7	-		29.5	5.9		7.7		59.9
9	740.14	156,134	(53)	2,664	-		0.310	56.4	-		34.9	5.9		7.5		51.7
10	740.13	156,107	(27)	2,664	-		0.290	52.8	-		31.5	5.9		7.7		70.9
11	740.11	156,054	(53)	2,663	-		0.350	63.7	-		41.2	5.9		7.7		65.5
12	740.08	155,947	(107)	2,662	-		0.280	50.9	-		86.9	6.0		7.6		44.4
13	740.05	155,894	(53)	2,661	-		0.290	52.7	-		46.5	5.9		7.6		59.7
14	740.03	155,841	(53)	2,661	-		0.200	36.4	-		44.1	6.0		7.7		41.2
15	740.00	155,761	(80)	2,659	-		0.250	45.4	-		60.3	6.0		8.7		40.4
16	739.97	155,681	(80)	2,658	-		0.170	30.9	-		59.8	6.0		7.5		24.2
17	739.94	155,601	(80)	2,657	-		0.290	52.7	-		65.3	6.0		7.7		51.7
18	739.92	155,548	(53)	2,657	-		0.240	43.6	-		45.1	6.0		7.6		49.3
19	739.91	155,521	(27)	2,656	-		0.250	45.4	-		40.6	6.0		7.6		72.6
20																
21																
22																
23																
24																
25																
26																
27																
28																
29																
30																

TOTALS		-800			-	-	4.500	818.7	-	-	-	849.8	112.9	-	147.2	-	1,128.6
---------------	--	------	--	--	---	---	-------	-------	---	---	---	-------	-------	---	-------	---	---------

Park Usage Rain % Yr. Total

THIS PAGE INTENTIONALLY LEFT BLANK



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

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



Cachuma Lake Recreation Area Launch Data -- May 2019		
Inspection Data		
Total Vessels entering Park	469	
Total Vessels launched	442	
Total Vessels Quarantined	27	
Returning with Boat Launch Tag	348	79%
New: Removed from Quarantine		
Kayak/Canoe: Inspected, launched	94	21%
4-stroke Engines		
2-strokes, w/CARB star ratings		
2-strokes, NO emissions ratings		
Quarantine Data		
Total Vessels Quarantined	27	
Quarantined 7 days	*	
Quarantined 14 days	*	
Quarantined 30 days	27	
Quarantine Cause		
Water on vessel*	*	
Debris on hull*	*	
Plug installed*	*	
From infected county	10	
Ballast tanks*	*	
Boat longer than 24 feet*	*	
Out-of-state	1	
Unspecified*	*	
Mandatory Quarantine All Untagged Boats	27	
Demographic Data		
Quarantined from infected county	11	
Quarantined from SB County	15	
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: 2019.05.28; 11:00 a.m. to 1:00 p.m. PDT
 Method: 4 PVC/Cement Sampling Stations; 56 linear feet of line
 Surveyors: SBCO Parks Employees
 Lake elevation: Max feet: 753.00, current 740.22; Max acre-feet: 193,305, current: 156,347;
 Current capacity: 80.9%