

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

3301 Laurel Canyon Road  
Santa Barbara, CA 93105

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Monday, March 24, 2008

*Approximate Start Time*  
4:00 p.m.

**AGENDA**

1. **COMB CALL TO ORDER, ROLL CALL** (COMB Board of Directors.) *(1 minute)*.
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.) *(5 minutes)*
3. **CONSENT AGENDA** (For Board action by vote on one motion unless member requests separate consideration.) *(2 minutes)*
  - a. Minutes
    - February 25, 2008 Regular Board Meeting
  - b. Investment of Funds
    - Financial Reports
    - Investment Reports
  - c. Payment of Claims
4. **REPORTS FROM THE MANAGER.** *(10 minutes)*
  - a. Water Storage, Water Production & Use, SWP Accounting
  - b. Operations Report
  - c. **Verbal Report** - Post-Zaca Fire Report – Water Quality Issues
  - d. 2008 Spill/Surcharge Issues
  - e. **Verbal Report** - Cachuma Reservoir Current Conditions
5. **PREVENTION OF QUAGGA MUSSELS AT LAKE CACHUMA** *(10 minutes)*
  - a. Proposed Budget Adjustment to Assist with Purchase of Decontamination Stations
6. **INTEGRATED REGIONAL WATER MANAGEMENT PLAN ACTIVITIES** *(5 minutes)*

7. **DIRECTORS' REQUEST FOR AGENDA ITEMS FOR NEXT MEETING** (2 *minutes*)
8. **MEETING SCHEDULE**
  - April 28, 2008 Regular Board Meeting
  - Availability of Board Packages on CCRB-COMB Website  
[www.ccrb-comb.org](http://www.ccrb-comb.org)
9. **COMB ADJOURNMENT**

NOTICE TO PUBLIC

**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 a public hearing before the Board. The total time for this item will be limited by the President of the Board. If you wish to address the Board under this item, please complete and deliver to the Secretary of the Board before the meeting is convened, a "Request to Speak" forms including a description of the subject you wish to address.

**Americans with Disabilities Act:** In compliance with the Americans with Disabilities Act, if you need special assistance to 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.

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

**MINUTES OF A REGULAR MEETING**  
**of the**  
**CACHUMA OPERATION & MAINTENANCE BOARD**  
**held at the**  
Cachuma Operation & Maintenance Board Office  
3301 Laurel Canyon Road, Santa Barbara, CA  
**Monday, February 25, 2008**

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**1. Call to Order, Roll Call**

The meeting was called to order at 3:52 p.m. by Vice-President Matt Loudon, who chaired the meeting. Those in attendance were:

**Directors present:**

Matt Loudon	SYR Water Conservation Dist., ID#1
Das Williams	City of Santa Barbara
Jan Abel	Montecito Water District
Bob Lieberknecht	Carpinteria Valley Water District

**Others present:**

Kate Rees	William Hair
Chris Dahlstrom	Brett Gray
Tom Mosby	Kevin Walsh
Gary Kvistad	Rebecca Bjork
Janet Gingras	Whitney Uyeda

**2. Public Comment**

There were no comments from the public.

**3. Consent Agenda**

**a. Minutes:**

January 28, 2008 Regular Board Meeting

**b. Investment Funds**

Financial Report  
Investment Report

**c. Payment of Claims**

Director Williams moved to approve the Consent Agenda, seconded by Director Abel, motion carried, 5/0/2, Director Evans was absent.

#### 4. Reports from the Manager

##### a. Water Storage, Water Production Use, SWP Accounting

The monthly reports from Janet Gingras were included in the board packet.

##### b. Operations Report

The January report on operations from Brett Gray was included in the board packet.

Mr. Gray also reported on the increased under-drain flows at Ortega Reservoir. Monitoring continues as does additional testing. Divers were sent into the reservoir on February 11, 2008 and the leaks that were found were not of a sufficient size to be a significant contributor to the increased under-drain flows. COMB staff will continue to work with Montecito Water District staff to try to determine the cause of the increase under-drain flows.

##### c. Post-Zaca Fire Report

Included in the board packet was a letter from Ms Rees to Tom Fayram, Santa Barbara County Flood Control District, requesting financial assistance for a Bathymetric Survey for Lake Cachuma. Mr. Fayram indicated that the County would be able to assist with funding this work. Also a progress report from Balance Hydrologics, Inc. on the delta instability and seiche/tsunami-generation hazard was included for information.

##### d. 2008 Spill/Surcharge Issues

Ms. Rees reported that the Bureau of Reclamation had declared the availability of surplus water from February 1, 2008 through March 31, 2008. The letter was included in the board packet. Stetson Engineering is currently working on establishing a protocol for surcharging the Lake and also for ramping down a release in order to avoid killing any fish.

##### e. Cachuma Reservoir Current Conditions

Date 02/25/2008

Lake elevation	752.09
Storage	194,461 acre feet
Rain (for the month to date)	2.23 inches
Rain YTD (for the season to date)	21.46 inches

Fish Release-Hilton Creek	14.4 acre feet per day
Month to Date Fish Release	426.8 acre feet
Month to Date Spill	10,895 acre feet

**5. Capital Improvement Program/Bond Issuance Presentation**

The recommendation before the Board was to authorize the use of \$143,000 of unexpended fund balance from Fiscal Year 2006-07 to continue the design process for the 2<sup>nd</sup> Pipeline Project (Project Component #1) and start the environmental process for the Mission Creek Crossing Project (Project Component #3). Director Williams moved to approve the recommendation as stated in the memo, seconded by Director Abel, passed 5/0/2. Director Evans was absent.

Brett Gray then gave a presentation highlighting the O&M Reliability Program Initial Project Report. He highlighted six of the Project Components by presenting the description, purpose, environmental requirements and a budget for each project. Mr. Gray requested that at the March Board meeting the Directors would review the project components, review the prioritization of the projects and review the bond issuance process. Mr. Gray would also be available to attend Board meetings of the Member Units to present COMB's O&M reliability program.

Director Williams requested that Mr. Gray provide information on energy cost savings if a new COMB office building were to be constructed and also what the cost would be to replace several of the older trailers that are currently being used as offices.

**6. Proposed Draft License for Ocean View Homeowners' Association at Ortega Reservoir to Use U.S. Bureau of Reclamation Right-of-way**

A draft license agreement designed to grant access to Ortega Reservoir Ridge Road for the property owners in the Ocean View Homeowners Association was handed out to the Directors prior to the meeting. Ms. Rees indicated this was for information only, and that a final license agreement recommendation would be presented for approval at the March Board meeting, if all parties bought off on the license. Ms. Rees highlighted the background on the requested right-of-way. The proposed draft License would be between COMB and the Ocean View Homeowners' Association. Counsel Bill Hair highlighted the terms of the license for the Directors.

**7. Quagga Mussel Issues Regarding Lake Cachuma**

Ms. Rees reported that a letter had been received from the County Board of Supervisors requesting that COMB attend a public hearing on prevention of Quagga mussels and present our request for a temporary restriction on private boating at Lake Cachuma. Ms. Rees will prepare a presentation for the March 11, 2008 County Board of Supervisors meeting. There were also several letters included in the board packet addressing the Quagga mussel issue.

Public Comment was made by Whitney Uyeda concerning the Quagga mussel.

**8. Conference Report**

- a. Reclamation's Mid-Pacific Region Water Users Conference, Reno, January 23-25, 2008

Ms. Rees reported that this session of the Water Users Conference was the best she had attended. The common theme throughout the conference was the change in operations that almost every agency is experiencing due to an endangered species. The projects and operations are all impacted by requirements to protect endangered species.

**9. Directors' Request for Agenda Items for Next Meeting**

There were no additional requests from the Directors.

**10. Meeting Schedule**

- The next regular Board meeting will be held March 24, 2008 following the 2:15 P.M. CCRB regular Board meeting, at the COMB office.

The Board Packets are available on the CCRB-COMB Website, [www.ccrb-comb.org](http://www.ccrb-comb.org)

**11. COMB Adjournment**

There being no further business, the meeting was adjourned at 5:12 p.m.

Respectfully submitted,

\_\_\_\_\_  
Kate Rees, Secretary of the Board

**APPROVED:**

\_\_\_\_\_  
Matt Loudon, Vice-President

comb2  
**Balance Sheet**  
As of February 29, 2008

	<u>Feb 29, 08</u>
<b>ASSETS</b>	
Current Assets	
Checking/Savings	
1050 · GENERAL FUND	564,199.75
1100 · REVOLVING FUND	3,286.21
TRUST FUNDS	
1220 · RENEWAL FUND	5,534.45
1210 · WARREN ACT TRUST FUND	278,755.68
Total TRUST FUNDS	<u>284,290.13</u>
Total Checking/Savings	851,776.09
Other Current Assets	
1010 · PETTY CASH	400.00
1200 · LAIF	1,395,810.36
1300 · DUE FROM CCRB	53,313.94
1302 · ASSESSMENTS RECEIVABLE-CARP	29,125.02
1303 · SOD Act Assessments Receivable	52,824.00
1400 · PREPAID INSURANCE	11,600.72
1401 · W/C INSURANCE DEPOSIT	3,906.00
Total Other Current Assets	<u>1,546,980.04</u>
Total Current Assets	2,398,756.13
Fixed Assets	
1500 · VEHICLES	291,882.50
1505 · OFFICE FURN & EQUIPMENT	169,593.40
1510 · TRAILERS	97,803.34
1515 · FIELD EQUIPMENT	315,952.43
1525 · PAVING	22,350.00
1550 · ACCUMULATED DEPRECIATION	-633,192.50
Total Fixed Assets	<u>264,389.17</u>
Other Assets	
1910 · LT SOD Act Assess Receivable	6,770,319.07
Total Other Assets	<u>6,770,319.07</u>
<b>TOTAL ASSETS</b>	<u><u>9,433,464.37</u></u>
<b>LIABILITIES &amp; EQUITY</b>	
Liabilities	
Current Liabilities	
Accounts Payable	
2200 · ACCOUNTS PAYABLE	87,363.08
Total Accounts Payable	87,363.08
Other Current Liabilities	
2550 · VACATION/SICK	71,006.19
2560 · CACHUMA ENTITLEMENT	-0.01
2561 · BRADBURY DAM SOD ACT	52,824.00
2562 · SWRCB-WATER RIGHTS FEE	1.52
2590 · DEFERRED REVENUE	284,290.13
Payroll-DepPrm Admin	15.00
Payroll-CCRB DepPrm	2.31
Payroll-DepPrm Ops	4.62
Total Other Current Liabilities	<u>408,143.76</u>
Total Current Liabilities	495,506.84
Long Term Liabilities	
2603 · LT SOD Act Liability - Lauro	1,060,000.00
2600 · Lease Obligation Payable	15,203.50
2601 · Note Payable SBB&T	29,125.02
2602 · SOD Act Liability-Long Term	5,710,319.07
Total Long Term Liabilities	<u>6,814,647.59</u>

comb2  
**Balance Sheet**  
As of February 29, 2008

	<u>Feb 29, 08</u>
Total Liabilities	7,310,154.43
Equity	
3000 · Opening Bal Equity	0.95
3901 · Retained Earnings	1,174,663.25
Net Income	<u>948,645.74</u>
Total Equity	<u>2,123,309.94</u>
<b>TOTAL LIABILITIES &amp; EQUITY</b>	<b><u><u>9,433,464.37</u></u></b>



7:59 AM  
03/18/08  
Accrual Basis

**comb2**  
**Profit & Loss Budget vs. Actual**  
July 2007 through February 2008

	TOTAL	TOTAL	TOTAL
	Jul '07 - Feb 08	Budget	\$ Over Budget
			% of Budget
Income			
3000 REVENUE			
3001 · O&M Budget	3,187,688.23		
3003 · Assessment Revenue-Carp	1,032.66		
3010 · Interest Income	49,311.19		
3020 · Misc Income	482.16		
3070 · OES 2005 Storm 1577 Reimb	700.00		
<b>Total 3000 REVENUE</b>	<b>3,239,214.24</b>		
<b>Total Income</b>	<b>3,239,214.24</b>		
<b>Gross Profit</b>	<b>3,239,214.24</b>		
Expense			
3100 LABOR			
3150 · Health & Workers Comp	88,586.13	157,010.00	-68,423.87
3155 · PERS	45,907.59	83,745.00	-37,837.41
3160 · Payroll Comp FICA Ops	19,831.94	35,755.00	-15,923.06
3165 · Payroll Comp MCARE Ops	4,722.50	8,362.00	-3,639.50
3100 LABOR - Other	0.00	541,693.00	-541,693.00
<b>Total 3100 LABOR</b>	<b>451,181.68</b>	<b>826,565.00</b>	<b>-375,383.32</b>
3200 VEH & EQUIPMENT			
3201 · Vehicle/Equip Mtce	18,828.17	38,000.00	-19,171.83
3202 · Fixed Capital	5,913.23	47,000.00	-41,086.77
3203 · Equipment Rental	14,102.06	25,000.00	-10,897.94
3204 · Miscellaneous	11,733.66	16,000.00	-4,266.34
<b>Total 3200 VEH &amp; EQUIPMENT</b>	<b>50,577.12</b>	<b>126,000.00</b>	<b>-75,422.88</b>
3300 · CONTRACT LABOR			
3301 · Conduit, Meter, Valve & Misc	8,699.28	12,000.00	-3,300.72
3302 · Buildings & Roads	15,224.82	16,000.00	-775.18
3303 · Reservoirs	45,746.95	52,000.00	-6,253.05
			49.55%
			12.58%
			56.41%
			73.34%
			40.14%
			72.49%
			95.16%
			87.98%

ITEM # 36  
PAGE 3

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**Profit & Loss Budget vs. Actual**  
July 2007 through February 2008

	Jul '07 - Feb 08	Budget	\$ Over Budget	% of Budget
<b>TOTAL</b>				
3304 · Engineering, Misc Services	17,703.28	22,000.00	-4,296.72	80.47%
Total 3300 · CONTRACT LABOR	87,374.33	102,000.00	-14,625.67	85.66%
<b>3400 · MATERIALS &amp; SUPPLIES</b>				
3401 · Conduit, Meter, Valve & Misc	22,678.69	22,000.00	678.69	103.09%
3402 · Buildings & Roads	8,064.73	22,000.00	-13,935.27	36.66%
3403 · Reservoirs	6,675.53	10,000.00	-3,324.47	66.76%
Total 3400 · MATERIALS & SUPPLIES	37,418.95	54,000.00	-16,581.05	69.29%
<b>3500 · OTHER EXPENSES</b>				
3501 · Utilities	2,612.15	6,500.00	-3,887.85	40.19%
3502 · Uniforms	3,684.89	6,500.00	-2,815.11	56.69%
3503 · Communications	10,766.51	20,000.00	-9,233.49	53.83%
3504 · USA & Other Services	1,497.85	4,000.00	-2,502.15	37.45%
3505 · Miscellaneous	5,426.32	6,000.00	-573.68	90.44%
3506 · Training	4,611.45	7,000.00	-2,388.55	65.88%
Total 3500 · OTHER EXPENSES	28,599.17	50,000.00	-21,400.83	57.2%
<b>4999 · GENERAL &amp; ADMINISTRATIVE</b>				
5000 · Director Fees				
5001 · Director Mileage	579.05	1,000.00	-420.95	57.91%
5000 · Director Fees - Other	7,040.00	11,000.00	-3,960.00	64.0%
Total 5000 · Director Fees	7,619.05	12,000.00	-4,380.95	63.49%
5100 · Legal	20,099.72	57,000.00	-36,900.28	35.26%
5101-1 · Audit	10,000.00	10,000.00	0.00	100.0%
5150 · Unemployment Tax	0.00	6,500.00	-6,500.00	0.0%
5200 · Liability Insurance	17,187.40	44,000.00	-26,812.60	39.06%
5201 · Health & Workers Comp	41,791.53	54,970.00	-13,178.47	76.03%
5250 · PERS	20,120.29	30,675.00	-10,554.71	65.59%
5260 · Comp FICA Admin	7,295.84	12,416.00	-5,120.16	58.76%
5265 · Comp MCARE Admin	1,882.07	2,903.00	-1,020.93	64.83%
5300 · Manager Salary	28,353.88	43,365.00	-15,011.12	65.38%

comb2  
**Profit & Loss Budget vs. Actual**  
July 2007 through February 2008

	Jul '07 - Feb 08	Budget	\$ Over Budget	% of Budget
<b>TOTAL</b>				
5301 · Administrative Manager	55,795.74	85,417.00	-29,621.26	65.32%
5306 · Administrative Assistant	34,777.93	53,190.00	-18,412.07	65.38%
5310 · Postage/Office Exp	3,534.29	9,000.00	-5,465.71	39.27%
5311 · Office Equip/Leases	2,966.52	6,200.00	-3,233.48	47.85%
5312 · Misc Admin Expenses	13,479.60	8,000.00	5,479.60	168.5%
5313 · Communications	2,520.58	12,000.00	-9,479.42	21.01%
5314 · Utilities	4,672.75	5,300.00	-627.25	88.17%
5315 · Membership Dues	4,729.50	6,850.00	-2,120.50	69.04%
5316 · Admin Fixed Assets	0.00	7,000.00	-7,000.00	0.0%
5325 · Emp Training/Subscriptions	733.45	4,500.00	-3,766.55	16.3%
5330 · Admin Travel/Conferences	1,956.78	6,000.00	-4,043.22	32.61%
5331 · Public Information	6,492.15	8,000.00	-1,507.85	81.15%
5332 · Transportation	134.93	1,200.00	-1,065.07	11.24%
<b>Total 4999 · GENERAL &amp; ADMINISTRATIVE</b>	<b>286,144.00</b>	<b>486,486.00</b>	<b>-200,342.00</b>	<b>58.82%</b>
5510 · Integrated Reg. Water Mgt Plan	59,134.80	60,000.00	-865.20	98.56%
<b>6000 · SPECIAL PROJECTS</b>				
6062 · SCADA	15,098.11	30,000.00	-14,901.89	50.33%
6090-1 · COMB Bldg/Grounds Repair	1,425.60	50,000.00	-48,574.40	2.85%
6092 · SCC Improv Plan & Design	346,909.66	393,000.00	-46,090.34	88.27%
6092-1 · SCC Improv Plan & Design CR	0.00	-143,000.00	143,000.00	0.0%
6095 · SCC Valve & Cntrl Sta Rehab	336,293.60	450,000.00	-113,706.40	74.73%
6095-1 · Lauro Debris Basin Rehab	42,727.80	1,144,050.23	-1,101,322.43	3.74%
6095-2 · Lauro Debris Basin CR	0.00	-544,050.23	544,050.23	0.0%
6096 · SCC Structure Rehabilitation	433,831.89	450,000.00	-16,168.11	96.41%
6097 · GIS and Mapping	8,889.66	40,000.00	-31,110.34	22.22%
<b>Total 6000 · SPECIAL PROJECTS</b>	<b>1,185,176.32</b>	<b>1,870,000.00</b>	<b>-684,823.68</b>	<b>63.38%</b>
<b>6400 · STORM DAMAGE</b>				
6401 · Storm Damage 2005	0.00	100,000.00	-100,000.00	0.0%
6402 · Zaca Fire Damage	46,412.89	225,000.00	-178,587.11	20.63%
6402-1 · Zaca Fire Damage - CR	0.00	-225,000.00	225,000.00	0.0%
<b>Total 6400 · STORM DAMAGE</b>	<b>46,412.89</b>	<b>100,000.00</b>	<b>-53,587.11</b>	<b>46.41%</b>

**comb2**  
**Profit & Loss Budget vs. Actual**  
 July 2007 through February 2008

	TOTAL			
	Jul '07 - Feb 08	Budget	\$ Over Budget	% of Budget
7000 - LEGAL & LITIGATION				
7002 - Spec Counsel-FMP-BO EIS/R	57,516.37	100,000.00	-42,483.63	57.52%
<b>Total 7000 - LEGAL &amp; LITIGATION</b>	<b>57,516.37</b>	<b>100,000.00</b>	<b>-42,483.63</b>	<b>57.52%</b>
7006 - INTEREST EXPENSE	1,032.66			
<b>PAYROLL</b>				
Gross	0.93			
Gross-CCRB	-0.48			
<b>Total PAYROLL</b>	<b>0.45</b>			
<b>Total Expense</b>	<b>2,290,568.50</b>	<b>3,775,051.00</b>	<b>-1,484,482.50</b>	<b>60.68%</b>
<b>Net Income</b>	<b>948,645.74</b>	<b>-3,775,051.00</b>	<b>4,723,696.74</b>	<b>-25.13%</b>

## OFFICE OF THE TREASURER

SACRAMENTO

Local Agency Investment Fund  
 PO Box 942809  
 Sacramento, CA 94209-0001  
 (916) 653-3001  
 www.treasurer.ca.gov/pmia-laif



January, 2008 Statement

CACHUMA OPERATION AND MAINTENANCE BOARD

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

Account Number : 70-42-001

Transactions

Effective Date	Transaction Date	Tran Type	Confirm Number	Authorized Caller	Amount
01-08-2008	01-07-2008	RW	1152915	KATHLEEN REES	- 260,000.00
01-15-2008	01-14-2008	QRD	1154844	SYSTEM	15,075.68
01-22-2008	01-22-2008	RD	1156976	KATHLEEN REES	150,000.00

Account Summary

Total Deposit :	165,075.68	Beginning Balance :	1,230,734.68
Total Withdrawal :	- 260,000.00	Ending Balance :	1,135,810.36

**MEMO TO:** Board of Directors  
 Cachuma Operation & Maintenance Board

**FROM:** Kathleen Rees, Secretary

**SUBJECT:** COMB INVESTMENT POLICY

The above statement of investment activity for the month of January, 2008, complies with legal requirements for investment policy of government agencies, AB 1073. I hereby certify that it constitutes a complete and accurate summary of all LAIF investments of this agency for the period indicated.

Kathleen Rees  
 Secretary

ITEM # 36  
 PAGE 7

**OFFICE OF THE TREASURER**  
 SACRAMENTO

 Local Agency Investment Fund  
 PO Box 942809  
 Sacramento, CA 94209-0001  
 (916) 653-3001  
 www.treasurer.ca.gov/pmia-laif


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MAR 15 2008

CACHUMA OPERATION AND MAINTENANCE BOARD

February, 2008 Statement

Account Number : 70-42-001

CACHUMA OPERATION AND MAINTENANCE BOARD

Attn: GENERAL MANAGER

3301 LAUREL CANYON ROAD

SANTA BARBARA CA 93105-2017

Transactions

Effective Date	Transaction Date	Tran Type	Confirm Number	Authorized Caller	Amount
02-04-2008	02-04-2008	RW	1158671	KATHLEEN REES	- 165,000.00
02-14-2008	02-13-2008	RD	1159632	KATHLEEN REES	425,000.00

Account Summary

Total Deposit :	425,000.00	Beginning Balance :	1,135,810.36
Total Withdrawal :	- 165,000.00	Ending Balance :	1,395,810.36

**MEMO TO:** Board of Directors  
 Cachuma Operation & Maintenance Board

**FROM:** Kathleen Rees, Secretary

**SUBJECT:** COMB INVESTMENT POLICY

The above statement of investment activity for the month of February, 2008, complies with legal requirements for investment policy of government agencies, AB 1073. I hereby certify that it constitutes a complete and accurate summary of all LAIF investments of this agency for the period indicated.

Kathleen Rees  
 Secretary

ITEM # 36  
 PAGE 8

P.O. BOX 1098  
NORTHRIDGE, CA 91328-1098

**This Statement Covers**

From: 02/01/08  
Through: 02/29/08

**Need assistance?**

To reach us anytime,  
call 1-800-788-7000  
or visit us at [wamu.com](http://wamu.com)

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

169637



**Your Guaranteed Great Rate Money Market Detail Information**

CACHUMA OPERATION AND MAINTENANCE BOARD

Account Number: 871-849343-4

Washington Mutual Bank, FA

0-4

**Your Account at a Glance**

<b>Beginning Balance</b>	<i>KA</i>	<b>\$5,530.07</b>	Interest Earned	\$4.38
Checks Paid		\$0.00	Annual Percentage Yield Earned	1.00%
Other Withdrawals		\$0.00	YTD Interest Paid	\$9.06
Deposits	<i>2/11/08</i>	+\$4.38	YTD Interest Withheld	\$0.00
<b>Ending Balance</b>		<b>\$5,534.45</b>		

Date	Description	Withdrawals (-)	Deposits (+)
02/29	Interest Payment		\$4.38

**MEMO TO:** Board of Directors  
Cachuma Operation & Maintenance Board

**FROM:** Kathleen Rees, Secretary

**SUBJECT:** COMB INVESTMENT POLICY

The above statement of investment activity for the month of *February*, 2008, 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 Washington Mutual Bank investments of this agency for the period indicated.

*Kathleen Rees*  
Secretary

ITEM # 36  
PAGE 9


P.O. BOX 1098  
NORTHRIDGE, CA 91328-1098**This Statement Covers**From: 02/01/08  
Through: 02/29/08CACHUMA OPERATION AND MAINTENANCE BOARD  
TRUST FUND  
3301 LAUREL CANYON RD  
SANTA BARBARA CA 93105-2017

169638

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or visit us at [wamu.com](http://wamu.com)**Your Guaranteed Great Rate Money Market Detail Information**CACHUMA OPERATION AND MAINTENANCE BOARD  
TRUST FUNDAccount Number: 871-849358-3  
Washington Mutual Bank, FA**Your Account at a Glance**

<b>Beginning Balance</b>	<i>KK</i>	<b>\$278,404.94</b>	Interest Earned	\$350.74
Checks Paid	<i>3/11/08</i>	\$0.00	Annual Percentage Yield Earned	1.60%
Other Withdrawals		\$0.00	YTD Interest Paid	\$702.63
Deposits		<b>+\$350.74</b>	YTD Interest Withheld	\$0.00
<b>Ending Balance</b>		<b>\$278,755.68</b>		

Date	Description	Withdrawals (-)	Deposits (+)
02/29	Interest Payment		\$350.74

**MEMO TO:** Board of Directors  
Cachuma Operation & Maintenance Board**FROM:** Kathleen Rees, Secretary**SUBJECT:** COMB INVESTMENT POLICYThe above statement of investment activity for the month of February, 2008, 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 Washington Mutual Bank investments of this agency for the period indicated.  
SecretaryITEM # 36  
PAGE 10



**Payment of Claims**  
As of February 29, 2008

Date	Num	Name	Memo	Split	Amount
<b>1050 - GENERAL FUND</b>					
2/5/2008	16769	Acorn Landscape Manage...	Scheduled mtce	2200 · ACC...	-253.80
2/5/2008	16770	ACWA Services Corporati...	Feb EAP	2200 · ACC...	-44.07
2/5/2008	16771	Alexander Hamilton Institu...	Personnel Legal Alert 3/17/08-4/1/...	2200 · ACC...	-159.72
2/5/2008	16772	American Water Works As...	Member dues 5/1/08-4/30/09 #00...	2200 · ACC...	-173.00
2/5/2008	16773	Aqua-Flo Supply		2200 · ACC...	-963.67
2/5/2008	16774	Balance Hydrologics, Inc.		2200 · ACC...	-12,507.89
2/5/2008	16775	BEC Electric Contractors	Ortega Res work	2200 · ACC...	-905.87
2/5/2008	16776	Big Brand Tire Company		2200 · ACC...	-1,211.54
2/5/2008	16777	Boyle Engineering Corp.		2200 · ACC...	-28,210.98
2/5/2008	16778	Business Card		2200 · ACC...	-4,570.12
2/5/2008	16779	C. Charles Evans	Jan mtg fees	2200 · ACC...	-266.10
2/5/2008	16780	CIO Solutions, Inc.	Support	2200 · ACC...	-1,072.50
2/5/2008	16781	Coastal Copy	Monthly mtce KM5035 12/4/07-1/...	2200 · ACC...	-40.84
2/5/2008	16782	COMB - Revolving Fund	Feb payrolls/taxes	2200 · ACC...	-107,644.83
2/5/2008	16783	County of Santa Barbara	Hazardous waste disposal	2200 · ACC...	-82.75
2/5/2008	16784	Cushman Contracting Corp.	Spools repair	2200 · ACC...	-9,297.00
2/5/2008	16785	Das Williams	Jan mtg fees	2200 · ACC...	-396.56
2/5/2008	16786	David Nageotte	Reimb-Steel toe boot	2200 · ACC...	-209.07
2/5/2008	16787	ECHO Communications	Answering service	2200 · ACC...	-70.68
2/5/2008	16788	Flowers & Associates, Inc.	Dec Exam & Repair SCC Phase I ...	2200 · ACC...	-12,083.75
2/5/2008	16789	Hydrex Pest Control Co.	Ant/pest control	2200 · ACC...	-80.00
2/5/2008	16790	Jan Abel	Jan mtg fees	2200 · ACC...	-414.30
2/5/2008	16791	June Van Wingerden	Jan mtg fees	2200 · ACC...	-142.29
2/5/2008	16792	Labor Ready Southwest, I...	Labor help Ortega	2200 · ACC...	-1,910.48
2/5/2008	16793	Laser Cartridge Co.	Cartridge recharge-CCRB	2200 · ACC...	-123.80
2/5/2008	16794	MarBorg Industries		2200 · ACC...	-263.09
2/5/2008	16795	Matt Loudon	Jan mtg fees	2200 · ACC...	-156.63
2/5/2008	16796	McMaster-Carr Supply Co.	Low pressure pvc hose PO#8787	2200 · ACC...	-321.84
2/5/2008	16797	Nargan Fire & Safety, Inc.	Adjustable nozzles	2200 · ACC...	-297.39
2/5/2008	16798	Nextel Communications	Cellular 12/19/07-1/18/08	2200 · ACC...	-408.51
2/5/2008	16799	Permacolor, Inc.	Vent cover	-SPLIT-	-396.00
2/5/2008	16800	PG&E		2200 · ACC...	-181.72
2/5/2008	16801	Praxair Distribution	Cylinder rental	2200 · ACC...	-45.14
2/5/2008	16802	Prudential Overall Supply		2200 · ACC...	-432.50
2/5/2008	16803	Robert Lieberknecht	Jan mtg fees	2200 · ACC...	-142.29
2/5/2008	16804	Sansum-SBMFC Occupati...	Pre-employment physical-J.Smith	2200 · ACC...	-209.00
2/5/2008	16805	Santa Barbara Police Dep...	Renewal-Security Alarm Reg#6439	2200 · ACC...	-20.00
2/5/2008	16806	Sound Billing LLC	CCRB-service Colorado	2200 · ACC...	-105.52
2/5/2008	16807	Southwest Services	Calibration-Venturi flow/GW lowflo...	2200 · ACC...	-606.53
2/5/2008	16808	State Compensation Insur...	Payroll Report Jan 08	2200 · ACC...	-3,293.79
2/5/2008	16809	Tri-County Office Furniture		2200 · ACC...	-932.39
2/5/2008	16810	Underground Service Alert	47 new tickets	2200 · ACC...	-70.50
2/5/2008	16811	Verizon Wireless	Cellular	2200 · ACC...	-174.26
2/5/2008	16812	Aspen Publishers, Inc.	Ca Employers Guide 2008	2200 · ACC...	-113.59
2/5/2008	16813	AT&T	Jan statement	2200 · ACC...	-194.30
2/5/2008	16814	City of Santa Barbara-Cen...	Hip boots/insoles/hard hats	2200 · ACC...	-568.35
2/5/2008	16815	City of Santa Barbara-Rec...	Recycle 12/31/07-1/31/08	2200 · ACC...	-7.35
2/5/2008	16816	City of SB-Refuse	Refuse 12/31/07-1/31/08	2200 · ACC...	-153.19
2/5/2008	16817	COMB-Petty Cash	Replenish petty cash	2200 · ACC...	-153.25
2/5/2008	16818	Culligan Water	RO system Feb	2200 · ACC...	-24.95
2/5/2008	16819	Home Depot Credit Services		2200 · ACC...	-311.97
2/5/2008	16820	Orchard Supply Hardware		2200 · ACC...	-175.97
2/5/2008	16821	Republic Elevator	Schedule mtce	2200 · ACC...	-232.17
2/5/2008	16822	Southern California Edison	Main ofc/outlying stations	2200 · ACC...	-1,139.82
2/5/2008	16823	Staples Credit Plan	Office supplies	2200 · ACC...	-541.30
2/5/2008	16824	The Wharf		2200 · ACC...	-913.34
2/12/2008	16825	Fleet Services	Fuel	2200 · ACC...	-2,737.68
2/12/2008	16826	GE Capital	Copier lease Billing ID#90133603...	2200 · ACC...	-427.77
2/12/2008	16827	J&C Services	1/4,11,18,25 ofc cleaning	2200 · ACC...	-500.00
2/12/2008	16828	Paychex, Inc.	1/11,25 payrolls/taxes/qtr & year e...	2200 · ACC...	-388.55
2/12/2008	16829	SB Home Improvement C...		2200 · ACC...	-182.06

8:59 AM  
03/18/08  
Accrual Basis

comb2  
**Payment of Claims**  
As of February 29, 2008

Date	Num	Name	Memo	Split	Amount
2/12/2008	16830	ACWA Services Corp. (AS...	3/1-4/1/08 coverage	2200 · ACC...	-10,270.34
2/12/2008	16831	CIO Solutions, Inc.		2200 · ACC...	-957.50
2/12/2008	16832	Nordman, Cormany, Hair ...	Gen Counsel Jan services	2200 · ACC...	-3,442.50
2/12/2008	16833	Shawn O'Callahan	Reimb-hotel/meals-training Denver	2200 · ACC...	-858.47
2/12/2008	16834	Southern California Edison	Glen Anne gate	2200 · ACC...	-17.44
2/12/2008	16835	Verizon California		2200 · ACC...	-396.80
2/12/2008	16836	Best, Best & Krieger, LLP	Crawford-Hall CEQA Jan services	2200 · ACC...	-8,549.06
2/13/2008	16837	Caterpillar Financial Servi...	Backhoe lease Contract #001-025...	2200 · ACC...	-1,294.06
2/13/2008	16838	Information Resources	Background check services JSmith	2200 · ACC...	-125.00
2/13/2008	16839	Science Applications Inter...	SCC/Goleta Reach Env. Consulti...	2200 · ACC...	-5,116.88
2/15/2008	16840	Verizon California	SCADA	2200 · ACC...	-514.16
2/18/2008	16846	Business Card	Rees	2200 · ACC...	-292.03
2/19/2008	16841	Federal Express	CCRB Mailings	2200 · ACC...	-76.92
2/20/2008	16842	ACWA/JPIA	HR Group meeting	2200 · ACC...	-12.00
2/21/2008	16843	The Gas Company	Main ofc	2200 · ACC...	-73.90
2/25/2008	16844	Acorn Landscape Manage...	Carp pathway project PO#07-08-1...	2200 · ACC...	-2,347.50
2/25/2008	16845	Cedant Web Hosting		2200 · ACC...	-19.94
Total 1050 · GENERAL FUND					<u>-234,022.82</u>
<b>TOTAL</b>					<u><b>-234,022.82</b></u>

# CACHUMA OPERATION AND MAINTENANCE BOARD WATER STORAGE REPORT

MONTH: **February 2008**

**GLEN ANNIE RESERVOIR**

Capacity at 385' elevation:	518 Acre Feet
Capacity at sill of intake at 334' elevation:	21 Acre Feet
Stage of Reservoir Elevation	362.00 Feet
Water in Storage	216.93 Acre Feet

**LAURO RESERVOIR**

Capacity at 549' elevation:	600 Acre Feet
Capacity at sill of intake at 512' elevation:	84.39 Acre Feet
Stage of Reservoir Elevation	546.30 Feet
Water in Storage	535.60 Acre Feet

**ORTEGA RESERVOIR**

Capacity at 460' elevation:	65 Acre Feet
Capacity at outlet at elevation 440':	0 Acre Feet
Stage of Reservoir Elevation	449.00 Feet
Water in Storage	25.98 Acre Feet

**CARPINTERIA RESERVOIR**

Capacity at 384' elevation:	45 Acre Feet
Capacity at outlet elevation 362':	0 Acre Feet
Stage of Reservoir Elevation	374.30 Feet
Water in Storage	21.99 Acre Feet

**TOTAL STORAGE IN RESERVOIRS**

Change in Storage	47.43 Acre Feet
-------------------	-----------------

**CACHUMA RESERVOIR**

Capacity at 750' elevation:	188,030 Acre Feet
Capacity at sill of tunnel 660' elevation:	26,109 Acre Feet

Stage of Reservoir Elevation	752.09 Feet
Water in Storage	194,461 AF
Area	3,110
Evaporation	528.3 AF
Inflow	23,405.8 AF
Downstream Release WR8918	0 AF
Fish Release	499.2 AF
<b>Spill/Seismic Release</b>	9,039 AF
State Project Water	0 AF
Change in Storage	5,054 AF
Tecolote Diversion	1,737.9 AF

07-08 ENTITLEMENT

CACHUMA OPERATION AND MAINTENANCE BOARD  
 WATER PRODUCTION AND WATER USE REPORT  
 FOR THE MONTH OF FEBRUARY 2008 AND THE WATER YEAR TO DATE

(All in rounded Acre Feet)

			MONTH TOTAL			YTD TOTAL
<b>WATER PRODUCTION:</b>						
Cachuma Lake (Tec. Diversion)			1,738			12,086
Tecolote Tunnel Infiltration			146			835
Glen Anne Reservoir			0			0
Cachuma Lake (County Park)			2			16
State Water Diversion Credit			0			1,328
Gibraltar Diversion Credit			0			0
Bishop Ranch Diversion			0			0
Meter Reads			1,718			10,302
So. Coast Storage gain/(loss)			47			(4)
Total Production			1,886			12,937
Total Deliveries			1,766			11,626
Unaccounted-for			120			1,311
% Unaccounted-for			6.38%			10.14%
	<b>GWD</b>	<b>SB CITY</b>	<b>MWD</b>	<b>CVWD</b>	<b>SYRWCD I.D. #1</b>	<b>TOTAL</b>
<b>WATER USE:</b>						
M&I	898	581	113	52	2	1,646
Agricultural	43	0	6	23	0	72
<b>TOTAL FOR MONTH</b>	<b>941</b>	<b>581</b>	<b>119</b>	<b>75</b>	<b>2</b>	<b>1,718</b>
Same Mo/prev. yr	555	517	113	110	2	1,297
M&I Yr to date	3,853	4,536	318	381	16	9,104
Ag. Yr to date	767	0	108	323	0	1,198
<b>TOTAL YTD</b>	<b>4,620</b>	<b>4,536</b>	<b>426</b>	<b>704</b>	<b>16</b>	<b>10,302</b>
<b>USAGE % YTD</b>	<b>33.5%</b>	<b>35.6%</b>	<b>14.0%</b>	<b>20.5%</b>	<b>0.8%</b>	<b>29.1%</b>
<b>Previous Year/YTD</b>	<b>5,154</b>	<b>3,074</b>	<b>1,385</b>	<b>1,027</b>	<b>16</b>	<b>10,656</b>
Evaporation	0	0	0	0	0	0
Evaporation, YTD	32	60	19	32	4	147
Entitlement	9,322	8,277	2,651	2,813	2,651	25,714
Carryover	3,516	5,171	1,202	2,112	204	12,205
Carryover Balances Spilled YTD	0	(1,156)	(876)	(1,450)	(187)	(3,669)
Surplus^^	941	581	119	75	2	1,718
State Water Exchange^	107	72	72	47	(298)	0
Transfers*/Adjustment***	0	0	0	0	0	0
Passthrough H2O**	0	(24)	0	0	0	(24)
<b>TOTAL AVAILABLE</b>	<b>13,885</b>	<b>12,921</b>	<b>3,168</b>	<b>3,597</b>	<b>2,372</b>	<b>35,943</b>
<b>REMAINING BALANCE</b>	<b>9,233</b>	<b>8,325</b>	<b>2,723</b>	<b>2,861</b>	<b>2,352</b>	<b>25,494</b>

\*\* City relinquished 0 AF per "Passthrough" agrmt for February 2008 (No Passthrough during spill conditions).

State Water Deliveries for February to Lake Cachuma were MWD 0 AF; CVWD 0 AF

GWD 0 AF (Morehart 0 AF); City of S.B. 0 AF; and LaCumbre 0 AF; (Ratheon 0 AF).

^ Per SWP Exchange Agrmt GWD received 23 AF; MWD received 15;

City of SB received 15 AF; and CVWD received 10 AF from ID#1 in February 2008.

^^ Surplus declared effective 2/1/08 - 3/09/08

PERCENT OF WATER YEAR ELAPSED:

41.7%

ITEM # 4a  
 PAGE 2

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

MONTH	DELVRD TO LAKE	Delvd CVWD		Delvd MWD		Delvd S.B.		Delvd GWD		Delvd LCMWC		Delvd RSYS		Delvd MLC	
		to Lake	to SC	to Lake	to SC	to Lake	to SC	to Lake	to SC	to Lake	to SC	to Lake	to SC	to Lake	to SC
2007															
Bal. Frwd		0	0	0	0	0	0	0	0	0	0	0	0	0	0
January	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
February	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
March	412	0	0	369	62.27	0	306.7	0	0	0	0	0	0	0	0
April	419	0	0	352	0.6	0	351.4	0	0	0	0	0	0	0	0
May	797	0	0	288	-62.9	0	350.9	0	432	0	0	0	0	0	0
June	982	0	0	345	0	0	345	0	518	0	0	0	0	0	0
July	882	0	0	308	0	0	308	0	463	0	0	0	0	0	0
August	716	0	0	254	0	0	254	0	381	0	0	0	0	0	0
September	764	100	0	230	0	0	230	0	346	0	0	0	0	0	0
October	588	100	0	403	0	0	403	0	40	0	0	0	0	0	0
November	263	0	0	183	0	0	183	0	0	0	0	0	0	0	0
December	486	0	0	418	134.2	0	283.8	0	0	0	0	0	0	0	0
Total	5316	200	0	3150	134.2	0	3016	0	2180	0	0	0	33	60	60

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

MONTH	DELVRD TO LAKE	Delvd CVWD		Delvd MWD		Delvd S.B.		Delvd GWD		Delvd LCMWC		Delvd RSYS		Delvd MLC	
		to Lake	to SC	to Lake	to SC	to Lake	to SC	to Lake	to SC	to Lake	to SC	to Lake	to SC	to Lake	to SC
2008															
Bal. Frwd		0	0	0	134.2	0	0	0	0	0	0	0	0	0	0
January	39	0	0	39	48.08	0	125.1	0	0	0	0	0	0	0	0
February	0	0	0	0	0	0	48.08	0	0	0	0	0	0	0	0
March	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
April	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
May	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
June	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
July	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
August	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
September	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
October	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
November	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	39	0	0	39	182.2	0	125.1	0	0	0	0	0	0	0	0

## Operations Report – February 2008

Cachuma Project water usage for the month of February 2008 was 1,718 acre-feet, compared with 1,297 acre-feet for the same period in 2007. Cachuma Project water use for the 12 months ending February 29, 2008 was 27,001 acre-feet, compared with 25,747 acre-feet for the 12 months ending February 28, 2007.

The average flow from Lake Cachuma into the Tecolote Tunnel was 60 acre-feet per day. Lake elevation was 750.45 feet at the beginning of the month and 752.09 feet at the end. Recorded rainfall at Bradbury Dam was 2.33 inches for the month and 21.86 inches for the rainfall season, which commenced on July 1, 2007.

Santa Barbara wheeled 199 acre-feet of Gibraltar water through Lauro Reservoir during the month. 0 acre-feet of State Water Project water was wheeled through Cachuma Project facilities and delivered to South Coast Member Units during the month.

Replacement of the East Valley Pump Station flow meter was completed this month. The valves, piping and meter were replaced with new equipment. The old disk venturi meter was replaced with a spool type magnetic flow meter that will improve metering accuracy at this location. The new meter was also connected to the Montecito Water District SCADA system which transmits the signal to the COMB SCADA system. This is the first of several upgrades scheduled for the Montecito section of the SCC over the next few years.

Investigation continued at Ortega Reservoir as to the cause of the increased under-drain flows. The flows are still in the 20 gpm range. Further leak detection was conducted in the east bay. This inspection was done with the east bay out of service and 10 feet of water in the west bay. No leaks were found during this inspection. The west bay is scheduled for inspection in March. Monitoring of the reservoir will continue for the next few months.

Miscellaneous work conducted this month includes:

- Staff assisted in below water survey for Lauro Debris Basin
- Fixed fencing damaged by vandals at Lauro Reservoir
- Staff attended Calpers retirement seminar
- Staff attended Denver Water User Conference
- Recoating of three exterior stairways for trailers with non-skid surface
- Annual weed abatement started this month at Lauro Reservoir

Routine operation and maintenance activities conducted during the month included:

- Sample water at North Portal Intake Tower
- Complete Maintenance Management Program work orders
- Read anode rectifiers and monitor cathodic protection systems
- Monitor conduit right-of-way and respond to Dig Alert reports
- Read piezometers and underdrains at Glen Anne, Lauro and Ortega Dams
- Read meters, conduct monthly dam inspections, and flush venture meters



Brett Gray  
Operations Supervisor

# CACHUMA RESERVOIR

## DISPOSITION OF 2008 SURCHARGE WATER

(UNOFFICIAL)

DATE	DESCRIPTION	FISH RELEASE FROM SURCHARGE (acre feet)	SURCHARGE BALANCE (acre feet)	FISH RELEASE FROM PROJECT YIELD (acre feet)
3/31/08	End of Spill	projected	9,200	
4/30/08	April	600	8,600	
5/31/08	May	600	8,000	
6/30/08	June	600	7,400	
7/31/08	July	600	6,800	
8/31/08	August	600	6,200	
9/30/08	September	600	5,600	
10/31/08	October	400	5,200	
11/30/08	November	400	4,800	
12/31/08	December	400	4,400	
1/31/09			4,400	
2/28/09			4,400	
3/31/09			4,400	
*** TOTAL		4,800	9,200	

## CACHUMA OPERATION AND MAINTENANCE BOARD

### MEMORANDUM

DATE: March 24, 2008  
TO: BOARD OF DIRECTORS  
FROM: Kate Rees, General Manager  
RE: **Quagga Mussel Prevention Measures and Proposed 2007- 08 COMB Budget Adjustment**

#### RECOMMENDATION:

1. Approve March 2008 Interim Boat Launching Protocol and rescind request for temporary closure of Lake Cachuma to private boats.
2. Authorize COMB staff to assist with monitoring boat inspections and decontamination of boats entering Lake Cachuma at Trout Derby in April 2008.
3. Consider cost sharing for the capital expenditure associated with the preventative measures identified in the Interim Boat Launching Protocol.
4. Consider reallocation of budgeted funds to assist in funding preventative measures against a Quagga mussel infestation at Lake Cachuma.

#### DISCUSSION:

The County Board of Supervisors held a hearing on March 11, 2008 to consider alternatives to prevent the introduction of Quagga mussels to Lake Cachuma. This hearing was prompted by COMB's request for a temporary closure to private boats until the preventative measures itemized in the COMB letter were in place in order to minimize as much as possible introduction of Quagga mussels by private boats. I gave the primary presentation followed by Mr. Hernandez, County Parks Director. Member Unit Board Directors and Cachuma Managers also provided comments supporting COMB's position.

No decision was reached at the hearing. Instead it was continued to the Board of Supervisors March 25<sup>th</sup> meeting, and an Ad Hoc Committee was formed to see if a mutually acceptable preventative program could be developed. The Ad Hoc Committee met on March 17, 2008. Member Units representatives included Matt Loudon, Iya Falcone, Lee Bettencourt, Kate Rees, Kevin Walsh, and Bill Brennan. County representatives included Salud Carbajal, Brooks Firestone, Mike Brown, Terri Maus-Nisich, Jeff Stone, Tom Fayram, and other County staff. Mr. Fayram developed and presented a well thought out, and comprehensive set of interim boat launching protocols that included all of the preventative measures the COMB Board had



requested. Those draft protocols are attached. The member unit representatives requested several additional precautions to which the County agreed. Mr. Fayram is revising the protocols to include them.

At the end of the meeting, the member unit Ad Hoc Committee agreed that the interim protocols included all possible preventative measures. We, therefore, recommend that the COMB Board approve them and rescind COMB's request for a temporary closure of Lake Cachuma to private boats.


One of the additional measures the County suggested, and to which we agreed, was to provide COMB staff to assist with monitoring supervision to make sure that the boat inspections and boat washings were being carried out properly for all private boats. This assistance is needed for the Trout Derby in mid-April due to the large number of boats that will be coming to Lake Cachuma.

The County has also asked that COMB also share in the initial costs associated with the additional preventative measures. A spreadsheet is attached showing those estimated costs. There was insufficient time to fully discuss cost sharing at the meeting on March 17<sup>th</sup>, or how much the County would want COMB to contribute. However, Supervisor Carbajal suggested that COMB might assist with financing the initial costs, and that the County would assume all long-term costs in the future. Another meeting of the Ad Hoc Committee will be held after the March 25<sup>th</sup> Board of Supervisors meeting to more fully explore this.

The member unit Ad Hoc Committee members were of mixed opinion regarding cost-sharing. It is my personal opinion, that the sooner these measures can be put in place, the less risk there will be for a Quagga infestation. If the COMB Board agrees that some cost sharing is appropriate, I would recommend, *as a maximum*, that COMB could pay for the capital equipment - pressure washers and permanent decontamination station - rather than contributing to County staff costs or public outreach costs. That would total about \$250,000, which is about half of the program costs through June 2009.

This year, the COMB Board approved using \$170,000 of unexpended revenue from FY 05-06 for debris removal at Lake Cachuma from the Zaca Fire. This money was not needed. In addition, the FY 07-08 COMB Budget includes \$100,000 to carry out storm damage repairs from 2005. Due to higher priorities, this work will not be done this year, and will be rebudgeted for FY 2008-09. These funds have already been assessed, so COMB has sufficient cash and would not need to ask the Member Units for additional money to assist with the Quagga preventative measures. If the Board believes it is appropriate to do so, a budget adjustment could be made to transfer funds into a new account for this purpose.

Respectfully submitted,



Kate Rees  
General Manager

Attachments

**QUAGGA MUSSEL AD HOC MEETING**  
**March 17, 2008**  
**12:30 pm. ~ BOS Conference Room**

1. Welcome and Introductions                      Supervisor Salud Carbajal, Chairman,  
Board of Supervisors
  
2. Goal of Meeting
  
3. Actions to date
  
4. Review of Proposed County Protocol
  - Public Information Strategy
  
5. COMB Responses to County Presentations
  
6. Other Issues
  - 
  - 
  -
  
7. Wrap Up and Action Steps

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Important Date

March 25, 2008

Board of Supervisors Hearing

# Santa Barbara County Cachuma Lake Park Interim Boat Launching Protocol March 2008

The County of Santa Barbara is implementing the following interim inspection and treatment protocol for all recreational boats and trailers registered in California prior to accessing Cachuma Lake to help prevent the spread of the Quagga and Zebra Mussels.

All out-of-state boats will be prohibited from Cachuma Lake unless kept in quarantine on site at Cachuma Lake for a minimum of 14 consecutive days.

The following procedures will be followed effective March 25, 2008 and will remain in effect until further notice.

In addition to meeting the conditions set forth below for the inspection, treatment and/or quarantine of boats and boat trailers, the owner of any boat and trailer seeking launch privileges at Cachuma Lake County Park must sign an affidavit attesting that: 1) the boat and trailer have not been in waters infested by Quagga or Zebra Mussels within the past 30 days; and 2) that no live bait other than commercially purchased worms and nightcrawlers are in possession.

## **Conditions that Result in Prohibited Boating Access to Cachuma Lake**

The County of Santa Barbara will prohibit access to Cachuma Lake County Park for any California-registered boat and trailer that violates any of the following requirements. Boats and trailers not conforming to these requirements will be denied entry, or, if the owner wishes to camp or enter the Park for day use, be prohibited from launching the boat.

- **Clean and Dry**

All boats and trailers entering Cachuma Lake County Park will be inspected and must be Clean and Dry. Boat hulls must be free of foreign matter. All bilges, live wells, bait tanks, integral coolers, or any other compartment within the boat must be clean and dry.

- **All Drain Plugs Removed**

All boats entering Cachuma Lake County Park must first have all drain plugs removed from the hull, bait tanks, live wells, integral cooler compartments, or any compartment that has the potential to retain water prior to transport that day. Any boat found with a plug installed upon entry will be turned away unless meeting certain criteria.

- **Boats Longer than 24 Feet Will Be Quarantined**

All boats that are 24 feet in length or greater are prohibited from entry unless meeting certain quarantine criteria.

## Inspection and Treatment of Boats Prior to Launching

### **Visual Inspection Only**

Boats and trailers that meet the following conditions will be required to pass a visual inspection prior to being allowed to launch in Cachuma Lake. Visual inspection will verify that the boat is **Clean and Dry** with a clean hull; no containment of water; and that there is no "bilge" area or other compartments that can contain water. Boats that qualify for a Visual Inspection Only in Categories 1, 2 or 3 (below) and pass this visual inspection can expect to be cleared for launch on Cachuma Lake.

**Category 1: Single-hull boats less than 18 feet in length**, powered by outboard motors, without "false" floors or multiple areas for water storage generally will qualify for visual inspections. Examples include most smaller aluminum fishing boats and some fiberglass fishing boats where the hull and the bottom of the inside of the boat are the same unit with only one drain plug.

**Category 2: Closed-hull boats less than 24 feet in length**, powered by outboard motors, that have no bilge areas, bait tanks or live wells. Examples include some pontoon boats, and small (under 18 feet) inflatable boats without bilges or live wells, etc.

**Category 3: Boats and trailers previously tagged by a Santa Barbara County Boat Launch Tag at Cachuma Lake** which will signify that the boat has not entered any other body of water after previously being inspection at (and exiting) Cachuma Lake.

All boats and trailers in Categories 1 & 2 (above) must have the motors in the down position for operation and must not have any residual water draining from the motor. Any boats that have residual water coming from the outboard motor upon inspection must follow the requirements for "Inspection and Treatment" below.

### **Visual Inspection and Post-Inspection Treatment**

Boats and trailers without a Boat Launch Tag that meet the following criteria will be required to be inspected and treated prior to being cleared for launch in Cachuma Lake.

1. **Boats that are 18 feet in length, but less than 24 feet in length** will be required to be inspected and treated prior to being allowed to launch in Cachuma Lake.
2. **Boats that are under 18 feet in length but are considered to be a bass boat or other boat of any length under 24 feet that has one or more compartments such as bilges, live wells, integral coolers, and bait tanks** will be required to be inspected and treated prior to being permitted to launch. Examples include runabouts, family pleasure boats, ski boats, etc.
3. **Any boat which has water that discharges from the outboard motor or sterndrive unit** will be required to be started and flushed for a period of no less than 5 minutes.

## Quarantined Boats

Boats and trailers that have been quarantined within the confines of Cachuma Lake County Park will be allowed to launch at Cachuma Lake as follows.

All boats that are 24 feet in length and longer that have been inspected to be clean and dry upon entry to the Park may enter an approved Parks Department Storage Yard and must remain there for a period of no less than 14 consecutive days prior to being permitted to launch.

All out-of-state boats, regardless of length, will be denied access to Cachuma Lake unless quarantined on site for 14 consecutive days.

## Boats With a Santa Barbara County Boat Launch Tag

Santa Barbara County will develop a system that upon clearing the required criteria to launch, the boat owner may request the installation of a Boat Launch Tag that will expedite re-entry to Cachuma Lake. The device will identify that the boat has not been removed from the trailer and thus has not been in any other waters after existing Cachuma Lake County Park. The new system will expedite visual inspections and the clearing of launch requirements for many local boaters.

## Rental Boats and Boats Residing in the Marina

Boats that meet the following criteria are allowed continued access to Cachuma Lake.

- **Privately Owned Boats Moored at Cachuma Lake**

Boats that are currently moored at the marina and are not removed from the Park, or boats that meet the above criteria to enter the lake and then are moored in the marina.

- **Permanent Cachuma Lake Boats**

Boats that are owned and operated by the County approved rental boat concessionaire that are permanently used and stored at Cachuma Lake.

- **County-owned Boats at Cachuma Lake**

Boats and trailers that are owned and/or operated by the Santa Barbara County Parks Department that reside at Cachuma Lake.

## Transportation of Live Bait

As an additional precaution to prevent the transport of invasive mussels, no live bait, other than commercially purchased worms and nightcrawlers will be allowed into Cachuma Lake. All other live bait including water born bait (minnows, crawdads, etc) are strictly prohibited.

Notes:

Note 1 – Clean and Dry is defined as boat having no attached matter, vegetation, mud, dirt; and being completely dry to the touch. The outside of the hull is to be free of foreign matter, and the inside of the boat, including all bilges, live wells, integral coolers, and bait tanks are to be dry and free of foreign matter.

Note 2 – Boats of 24 feet and greater have been identified as possessing the greatest risk of transmitting invasive mussels and therefore are specifically treated in a different manner.

Note 3 – Treatment will consist of high temperature washing of 140 degree water over the hull and trailer. If determined necessary by Park staff, areas of water storage such as bilges, live wells, and bait tanks may also require treatment.

Note 4 – All out-of-state boats, regardless of length, will be denied access to the Lake unless quarantined on-site for 14 consecutive days. Quarantined boats must be stored within an approved Parks Department storage area at Cachuma Lake Park for the specified time frame prior to being approved to launch. The California Department of Fish and Game recommends a 5 day dry period to ensure no spread of invasive mussels. Santa Barbara County has expanded this period to 7 days for boats under 24 feet in length and 14 days for boats and trailers 24 feet and longer.

**Cachuma Lake Quagga Mussel Subcommittee Meeting**  
**Fiscal Impacts of Quagga Mussel Boat Launch Program at Cachuma Lake - DRAFT**

<u>FY 2007-08</u> (April, 2008)	<u>FY 2007-08</u> (May - June, 2008)	<u>FY 2008-09</u>	<u>FY 2007-08</u> & <u>2008-09</u>	<u>FY 2009-10</u>
			<i>COMBINED COST</i>	
<b>Trout Derby Program</b>	<b>Interim Boat Launch Inspection Program</b>	<b>Permanent Boat Launch Inspection Program</b>	<b>2007-08 &amp; 2008-09 Boat Launch Inspection Program</b>	<b>Ongoing Boat Launch Inspection Program</b>
<b>Revenue:*</b>	<b>Revenue:**</b>	<b>Revenue:***</b>	<b>Revenue:</b>	<b>Revenue:***</b>
\$0	\$7,300	\$60,500	\$67,800	\$60,500
<b>Expenditures:</b>	<b>Expenditures:</b>	<b>Expenditures:</b>		<b>Expenditures:</b>
Staffing Costs = \$17,800 (includes Indirect Cost Rate)	Staffing Costs = \$35,600 (includes Indirect Cost Rate)	Staffing Costs = \$149,500 (includes Indirect Cost Rate)	\$ 202,900	Staffing Costs = \$149,500 (includes Indirect Cost Rate)
Public Outreach and Education Costs = \$5,000	Public Outreach and Education Costs = \$5,000	Public Outreach and Education Costs = \$2,500	12,500	Public Outreach and Education Costs = \$2,500
Rental of 2 Pressure Washers (@\$300/week) = \$2,400 <i>Revised</i>			2,400	
	Purchase of 2 Pressure Washers (@\$5,000 ea.) = \$10,000 <i>Revised</i>		10,000	
Barrow Quagga Dog from State Fish & Game = \$1,000 (food & handler costs?)	Purchase 1 Quagga Dog = \$12,000 (\$10k + \$2k Vet and food estimate)	Purchase 2nd Quagga Dog = \$12,000 (\$10k + \$2k Vet and food estimate)	25,000	Vet and Food for both Quagga Dogs = \$4,000 (\$2k Vet and food estimate)
		Purchase of Boat Washing/Decontamination Station <i>Revised</i> \$242,400 <i>6-8 weeks</i>	242,400	
		Cost to Create Record-Keeping Database = \$20,000	\$ 20,000	
Contingency = 10%	Contingency = 10%	Contingency = 10%	Contingency = 10%	Contingency = 10%
<b>\$28,820</b>	<b>\$68,860</b>	<b>\$469,040</b>	<b>\$566,720</b>	<b>\$171,600</b>
<b>\$28,820</b>	<b>\$61,560</b>	<b>\$408,540</b>	<b>\$498,920</b>	<b>\$111,100</b>
*Assumes no fee would be able to be put in place until June.	**Assumes a \$10 per boat inspection/cleaning fee would be in place for only the last month of FY 2007-08 (June).	***Assumes a \$10 per boat inspection/cleaning fee would be in place for the entire fiscal year. Would be approximately \$30 per boat for full a full cost recovery.		
	Note: Since boat users already pay \$16 per day (\$8 day use fee, plus \$8 boat launch fee), it is staff's judgment that a boat inspection/cleaning fee higher than \$10 per boat would be cost prohibitive to the user and significantly discourage boat usage at the lake.			



### Quagga Mussel Monthly Inspection - Cachuma Lake Marina

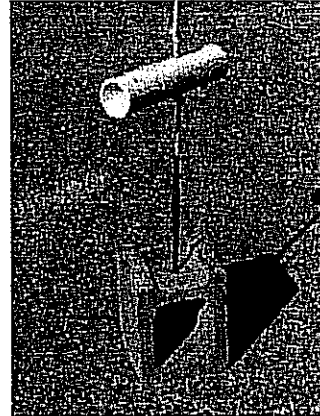
**Summary: NO MUSSELS FOUND.** Survey results are below.

Date Inspected: 13 March 2008 by Melissa Kelly

Lake Elevation: 753 Feet

10 stations have been placed in the marina. Each sampler is a 7 x 7 inch cinder block with a 10-inch PVC pipe suspended horizontally just above the cinder block. Line material is yellow plastic boating line.

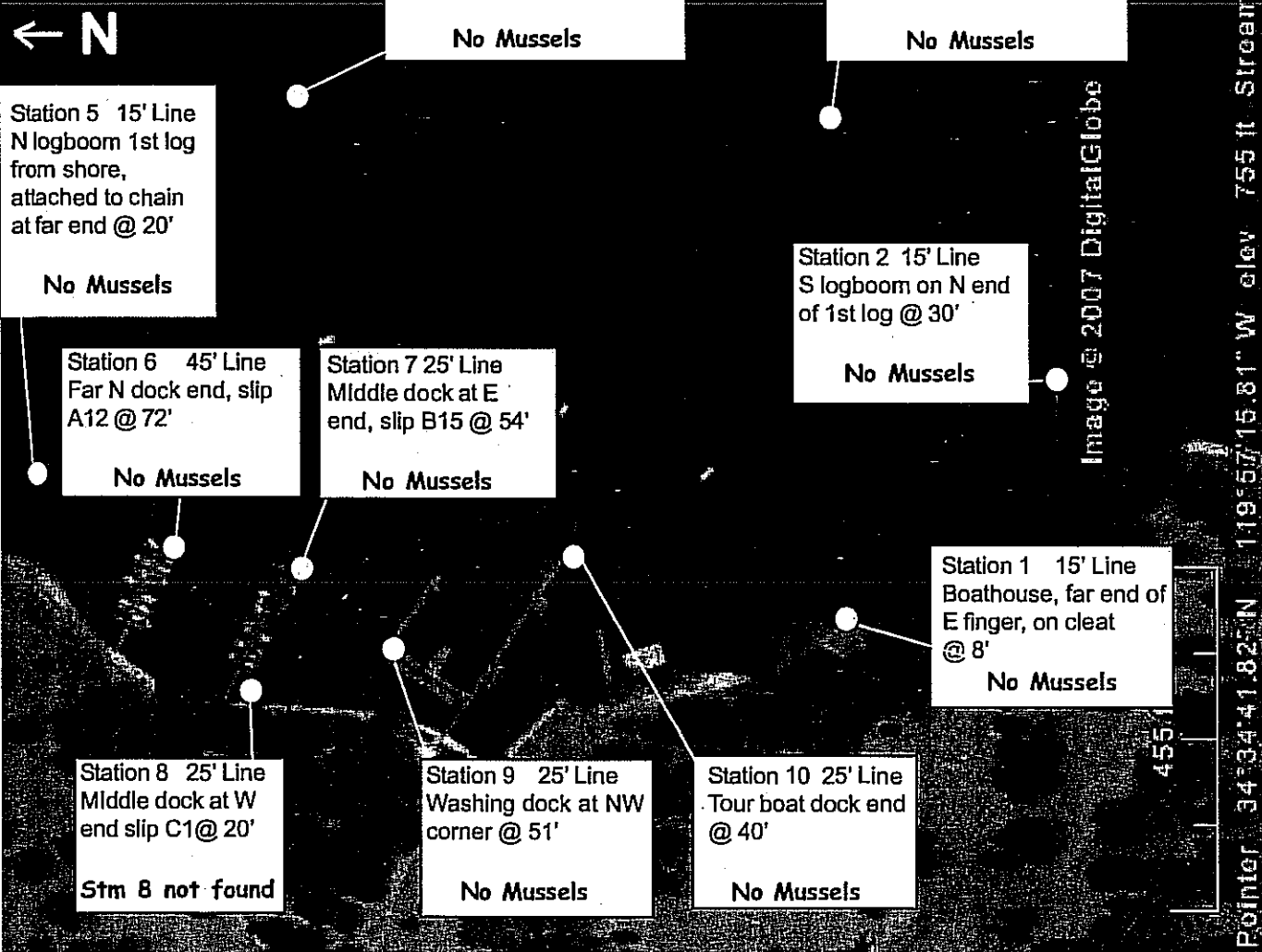
Also surveyed four random spots on each dock and found no evidence of quagga mussels. MK



- 3 Stations @ 15-foot depth
- 4 Stations @ 25-foot depth
- 1 Station @ 45-foot depth
- 2 Stations @ 65-foot depth

Station 4 65' Line  
 N logboom, 14th log from S  
 end, attached to chain on  
 NE side, far end @ 135'

Station 3 65' Line  
 logboom platform at  
 entrance, E side @ 125'





# NEWS MEDIA / PUBLIC RELATIONS / ADVERTISING PLAN FOR QUAGGA MUSSEL ISSUE

## Week of March 17-21

- Radio Interview with KINF –1410 and 1440 AM in Santa Maria/Lompoc on Friday, March 21 day after Board letter is filed.
- Arrange for additional media interviews as time & schedules allow for following week.
- Press release to be issued Friday, March 21, (or March 24) concerning Board letter, & for the March 25 meeting, include update on status of lake, boat ramp, et al.
- Change/update info on County's homepage with a "Quagga Alert" link to go to Parks Dept.'s webpage with Quagga info. Update websites' info as needed.
- Update Trout Derby Hotline Number, 805-693-8381
- Begin preparing press release in follow-up to Board action on March 25. Need to again accurately describe status of boat ramp and the impact, if any, on the Trout Derby
- Plan to do a follow-up press conference at the Lake that week or when wash/de-con equipment is there. Include demo of boat wash and inspection. This can also be used for Ch. 20 video (below).

## Week of March 24-29

- Work on Op-Ed piece on BOS Action and Need to Protect Lake Cachuma
- March 26 is deadline to reserve ad space for Western Outdoor News' April 4 edition. March 28 is deadline for photo-ready copy.
- Being drafting new/duplicate mailing to all of those fishermen/women who received mailer from Parks Department about Trout Derby (approximately 4,000). This needs to go out no later than April 8.
- Develop a 10- to 15-minute info video for Ch. 20 about how to prepare boats for inspection and what & how we plan to inspect and de-con boats for the Trout Derby. To begin airing Week of April 7.
- Press Release on when video airs.
- Reserve other print ads in local papers to run during week of April 7 and April 14.

#### Week of April 7-11

Reserve Changeable Message Board Signs; Work with Public Works Department on deployment locations, etc. (We should have CMBs—electronic changeable message boards placed at strategic locations on Highway 154 and 246 to remind boaters about boat plugs, and inspections—assuming we go forward with Trout Derby)

- 
- Follow-up Interviews with news media
- Finish Trout Derby Mailing
- Press Release on Trout Derby; reminders, etc.

#### Week of April 14-19 / Trout Derby Weekend, April 19-20

- Media Advisory to press about Trout Derby, inspections and Quagga dogs, due out by April 16

#### Customer Service/ Public Relations

- For boaters and fishermen/women denied boating access to Lake Cachuma due to a Quagga-related issue, we need to give them a return pass good for one free entry and launch upon their return and successful completion of a boat inspection.

#### Long-range/ Post Trout Derby

- Develop an additional video for Ch. 20, post-Trout Derby about the ongoing Quagga issue.
- Draft Follow-up Op-Ed on Trout Derby successes/lessons learned & where we go from here.
- Make the Ch. 20 video a 30- and 60-second PSA format to send to all media outlets.
- Periodic press releases as needed.
- Periodic advertising as needed. ("Lake Guides" for Western Outdoor News)
- Periodic updates on website as needed.
- Develop new tri-fold brochure as handouts for boating community

March 19, 2008

Mr. Salud Carbajal, Chair  
Santa Barbara County Board of Supervisors  
105 East Anapamu Street  
Santa Barbara CA 93101

Subject: Continued Item from the March 11 Agenda Pertaining to the Proposed Closure of Lake Cachuma to Outside Boats and Support for Temporary Closure

Dear Chair Carbajal and Members of the Board of Supervisors:

As you are aware, on Tuesday, March 4, the Casitas Municipal Water District voted to immediately close Lake Casitas to any boat not already inside the fenced recreation area. The purpose of closing the lake to outside boats was to help prevent the accidental transmission of invasive species, such as Quagga and Zebra mussels, into the Lake. Just before the Board closed the meeting to public testimony, I informed them that they were faced with a choice between having an infected lake or a protected lake. Again, as you are aware, the Board chose to protect Lake Casitas because it serves as the main source of water for an area exceeding 120 square miles, tens of thousands of residents, hundreds of businesses, thousands of employees and over 8,000 acres of agriculture. In addition, because the Casitas District is not connected to the State Water Project, there is simply no water available for replacement in the event Lake Casitas water became unusable due to increased costs and various forms of contamination resulting from infestation of mussels such as fish die-offs and extensive growth of oxygen depleting blue algae (and related odor problems).

After listening to several dozen people testify in favor of not closing the Lake, I was appalled to hear time after time that not one person, or association in favor of boating and/or fishing, was willing to accept any part of the increased costs that might be experienced by the District resulting from mussel infestation. To sum up, those people who did not live in the District and typically might use their boats in infested as well as non-infested water did not offer to list the District as a co-insured on their general liability policy, nor did they offer to pay a proportionate cost for a bond in favor of the District to help compensate it for increased cleaning costs, repairs, and equipment replacement that would follow a mussel infestation. Finally, the very boaters who would have continued to put the District at risk did not express one iota of concern about the increased costs that would have to be paid by residents, businesses, and

ITEM # 5  
PAGE 12

Mr. Salud Carbajal

2

March 19, 2008

ranchers in the District if the Lake became infested. Instead the outside boaters and representatives or their associations presented all kinds of self-serving reasons supporting why they should be allowed to play even though they might bring in a mussel infestation at the microscopic level that will cause local residents and businesses to pay costs far beyond anything known to date.

Finally, it is felt that if boaters would have to pay their fair share of increased risk to water districts, such as Lakes Casitas and Cachuma, the demands of the boaters would decrease significantly!

In conclusion, it seems totally nonsensical to allow a few thousand boaters who use their boats in many different bodies of water throughout Southern California to accidentally transport microscopically-sized mussel larvae into local lakes and then place at serious risk the currently affordable water in Ventura and Santa Barbara Counties for hundreds of thousands of residents, thousands of businesses, tens of thousands of employees, and thousands of acres of agriculture. Finally, based upon over a year of studying the potential impacts of a mussel infestation, I would like to suggest that Santa Barbara County adopt a one-year moratorium (on allowing boats currently outside the Lake Cachuma Park boundary from entering the Lake area and being launched) until a totally effective boat decontamination facility is installed and the costs of increased risk are added to the entrance fee so that local residents, businesses, and ranchers will not have to pay them under any circumstances.

Sincerely,



Ralph J. Steele  
1579 Orchard Drive  
Ojai, CA 93023

Cc: Members of the Santa. Barbara County Board of Supervisors  
→ General Manager, Cachuma Operation and Maintenance Board  
General Manager, Casitas Municipal Water District  
President and Directors of the Casitas Municipal Water District

ITEM # 5  
PAGE 13

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Mar. 03, 2008

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## Boaters finding mussels big pain

### Pest thrives in warm waters of Southwest

By KEITH ROGERS  
REVIEW-JOURNAL

Quagga mussels are clinging to thousands of boats berthed in Lake Mead's marinas, stirring concern among recreational boaters that they will continue to coat hulls, clog cooling water intakes and cause engines to overheat unless preventive measures are taken.

The problem with the invasive mollusks has magnified since they were discovered a year ago in the lake's Boulder Basin and later downstream from Hoover Dam in lakes Mohave and Havasu. Lake Mead alone has more than 2,000 marina slips.

Scientists say warmer water temperatures and the calcium content of the Southwest's lakes has caused quaggas, a zebra-type mussel, to reproduce three times faster than in the Great Lakes region. That's where they turned up in the mid-1980s after hitchhiking in the ballast water of foreign ships.

Wen Baldwin, director of the Lake Mead Boat Owners Association, was first to identify quaggas that were found in the lake by a diver in January 2007.

"I made the comment then, 'If you think there are mussels out here now, give it a year.' I would have been very happy to have been wrong," Baldwin said Friday. "These things are very prolific."

At Lake Mead's Callville Bay Marina, boat broker Brent Thompson is exploring ways to cope with quagga mussels. Routine maintenance costs to remove them from vessels can be thousands of dollars, depending on the boat's size.

Owners of boats that are less than 32 feet long can deal with mussels by periodically pulling them out for cleaning at Callville's high-pressure, hot-wash station.

Mobile cleaning services are also available at the other three marinas on Lake Mead and three on Lake Mohave.

But Thompson, who owns a 50-foot cabin yacht, said it's not practical for him to haul his boat out, pay \$600 and have it decontaminated "two or three times a year."

"I'm trying to save my own shirt and do my boating here and not destroy my boat."

Without regular maintenance to brush away the fingernail-size mussels, colonies can build up on the hull and in the cooling water intake of outdrives. Thompson said he fears that this summer skippers who haven't done the maintenance will fall victim to serious safety problems caused by

ITEM # 5

PAGE 14

drag on the boat and lack of cooling water.

"They will go up the lake, overheat, melt hoses and that results in fires," he said last week, sitting in the cabin of the vessel, Sand Castle.

Baldwin agrees and points to another potentially dangerous situation: A boat goes adrift in the wind after a cooling intake, plugged by quaggas, causes the engine to overheat.

In a September letter to Thompson, Baldwin described the scenario that would complicate matters for National Park Service staff and other responders.

"Depending on the wind, this could have been a very dangerous situation. It would also have taken resources away from their already busy schedules to go out and tow the boat to shore."

While walking on the dock among the marina's slips last week, Thompson said, "Every boat that's floating here is affected. ... It's another maintenance issue. I don't want to scare people away from boating."

Randy Roundtree, general manager at Callville Bay Marina, said he is "a little surprised" at how fast quaggas have spread throughout the lake.

"We're dealing with it. Everybody's going to have to keep an eye on their boats and take them out and clean them," he said Friday.

Thompson has offered a potential solution to the National Park Service that entails having an easily accessible slip for larger boats that can surround them in the water with a thick plastic slip liner. Once in position, a diver can then brush off the mussels and collect them in bags for disposal, all without having to pull the boat out of the water and transport it to a wash station.

He said the cost of a slip liner for a 65-footer would be about \$6,500.

Another way of coping with the mussel problem is to invest in a hoist that lifts the boat out of the water at the slip, where it can be stored out of the water and easily lowered back down.

Erik Steensen, manager of HydroHoist Southwest in Boulder City, said the largest boat lift his company has installed at a Lake Mead marina can accommodate a 42-foot, 40,000-pound boat. The price was \$40,000. A hoist for a smaller, 30-foot, 10,000-pound boat runs about \$11,000.

Bottom paint that contains metals toxic to mussels is also effective. But Baldwin said expensive bottom paint doesn't cure the problem with mussels clogging engine cooling intakes.

In addition, he said, a boat that is pulled up on a beach can develop scratches in bottom paint, opening spots for mussels to colonize. Then, when they fall off or are scraped off, the toxic bottom paint goes with them back into the lake.

A chlorine solution is also effective for killing quaggas, but with that comes other environmental problems with water contamination that could violate state and federal laws.

"Bleach does clean them out, but boat manufacturers said bleach can damage engines and void out the warranty," said Roxanne Dey, a National Park Service spokeswoman.

She said the park service staff at Lake Mead National Recreation Area has fielded numerous inquiries regarding quagga removal and cleaning them off boats in the water.

ITEM # 5  
PAGE 15

Whatever technology is approved for the lake would have to be permitted by Nevada and Arizona environmental officials.

"We would have to have clear evidence that whatever technology is brought forth" must have its effectiveness demonstrated, Dey said.

"We don't feel like taxpayers should have to pay for that service. You need to do your own homework," she said.

The park's main concerns are environmental.

"What else is getting in the water? Paint? Fiberglass? Oil? What is getting scraped off?" Dey asked.

For example, engines would have to be flushed out in a way that's environmentally sound.

"The idea of divers in the water around busy boat harbors is a concern itself," Dey said.

"Until basic concerns are addressed, we're not considering any proposal that's been given to us. We're not going to do one thing that gets rid of quaggas on the hull that creates another problem environmentally."

Contact reporter Keith Rogers at [krogers @reviewjournal.com](mailto:krogers@reviewjournal.com) or (702) 383-0308.

**Find this article at:**

<http://www.lvrj.com/news/16174522.html>

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ITEM # 5  
PAGE 16



CALIFORNIA DEPARTMENT OF FISH AND GAME / SPECIAL TO THE BEE  
 A quagga mussel on a quarter. Zebra and quagga mussels are triangular and have dark and light bands. They're relatively small, from microscopic to fingernail size for the quagga; up to 2 inches for the zebra.

**California reservoirs, lakes threatened**  
**Zebra and quagga mussels could cripple any water system.**

By Bill Moram / San Luis Obispo Tribune  
 03/17/08 22:53:37

California's reservoirs and lakes are under siege by an invasive species that has been migrating from the Upper Midwest via the Ukraine.

The pernicious little animals, from microscopic to 2 inches in length, are zebra and quagga mussels, believed to have hitched a ride to the Great Lakes in the blown bilge water of an Eastern European freighter in the mid-1980s.

The mussels have cost public utilities in the Great Lakes region billions of dollars in damage to water delivery systems, costs that are then shouldered by ratepayers.

But that's not all. If the mussels establish a beach head in San Luis Obispo County, officials may close lakes -- which would cost the county thousands of dollars in recreational income, not to mention the anger that it would cause in the fishing, boating and windsurfing communities.

"They pose a threat anywhere," says John Hollenbeck, project manager of the \$173 million Nacimiento pipeline project. "If they got into Nacimiento, we couldn't get them out."

That's the thinking that led the Casitas Municipal Water Board on March 4 to close one of the top three bass fishing lakes in the nation to outside boaters. (Boats stored at the lake, as well as marina rentals, can still get out on the water.)

The Ventura County water officials feared that if the mussels got a foothold in the lake, it could financially ruin the district.

Santa Barbara County decided last Tuesday to wait two weeks before deciding to follow Ventura's lead or leave Lake Cachuma open to outside boaters. San Luis Obispo County has yet to schedule any meetings on the possible mussel invasion of its lakes and streams.

With the zebra capable of spawning anywhere from 30,000 to 100,000 offspring a year -- and the quagga up to a million a year -- an infestation has the capacity to "completely cripple any water system," says Hollenbeck.

The animals grow in such thick masses that they first would completely choke the lake screens on the water system's intake pipe, he adds. Those would have to be cleaned regularly.

"If we get them in the main pipe," he explains, "that increases friction of the water moving through the pipe; that means a need for larger pumps to push the water. Smaller pipes -- from 3 to 4 inches in diameter -- will be completely shut tight and have to be replaced."

**MORE INFORMATION**

**Stop the spread**

- Inspect exposed surfaces of boats, trailers and vehicles. Small mussels feel like sandpaper to the touch.
- Use a high-pressure hose, preferably with hot water, to wash down all watercraft, whether it's a boat, personal watercraft or windsurfing board.
- Remove all plants and animal material from boats and leave them in a trash can -- that includes bait.
- Drain all water and dry all surfaces.
- Drain and dry the lower outboard unit; run the engine for five to 10 seconds once on the trailer.
- Clean and dry all live-wells; empty and dry any buckets.
- Wait five days, and keep the craft dry, between launches into different bodies of water.

Source: California Department of Fish And Game

ITEM # 5  
 PAGE 17



**Don't move a mussel**

In their larval stage, these mussels are adept little hitchhikers. They like nothing more than to attach themselves to hard surfaces like boat hulls. From there, they can migrate into a boat's motor and cooling system, bait wells, trailers and even bumpers of trucks that back into lakes for launching.

And that's why after zebra mussels were found in San Justo Reservoir in San Benito County a month ago, the reservoir was completely closed to public boating.

**Endangered recreation?**

Lake closings trouble Pete Jenny, manager of the San Luis Obispo County Parks Division -- which oversees boating and camping at Lopez and Santa Margarita lakes.

"As recreation providers, we're concerned," he explains. "So we're trying methods of education. We have fliers at the lakes, marinas and launch ramps, telling people what to look for. We're doing spot inspections, but we don't have the resources to go over every boat."

Jenny's concern is if the invaders are found at either or both of the lakes, the county Public Works Department -- which oversees domestic water production for Lopez and Margarita -- could close them to recreational use.

Such a move would be a recreational and financial hit to the county parks program: Santa Margarita brings in about \$50,000 a year in launch fees and annual passes with more than 4,000 launches a year.

Lopez draws an average of 450,000 visitors a year, with some 7,500 annual launches that run the gamut of boats, personal watercraft, wind surfers and canoes. When those launches are combined with the 550 people who buy passes for unlimited launches, annual revenue there totals about \$95,000.

The impact of having to close Lopez "would be huge to us," says Jenny. "And imagine the impact on local sporting goods, from selling bait to boats to rods and reels.

**Maintenance or prevention?**

Paavo Ogren is the county's top engineer of public works. As such, he oversees water supplies at Lopez and Margarita. He attended a state Department of Water Resources conference on mussels about six months ago and left with a sense of wary resignation.

"We weren't given a lot of optimism at the conference," he recalls. "Preventative programs have been attempted; it's been limited -- and usually means delaying the infestation.

"Is there any reason to believe we can be more successful than others who have tried prevention?" he asks. "Probably not. It's going to be a maintenance program; it's just a matter of time."

Fish & Game spokeswoman Alexia Retallack doesn't agree. As part of an educational blitz, her agency sent out mussel educational material to all of the state's registered voters, in addition to some 1.2 million boaters who are reregistering their boats.

"Food and Agriculture has stopped every boat coming into the state since January 2007," she notes.

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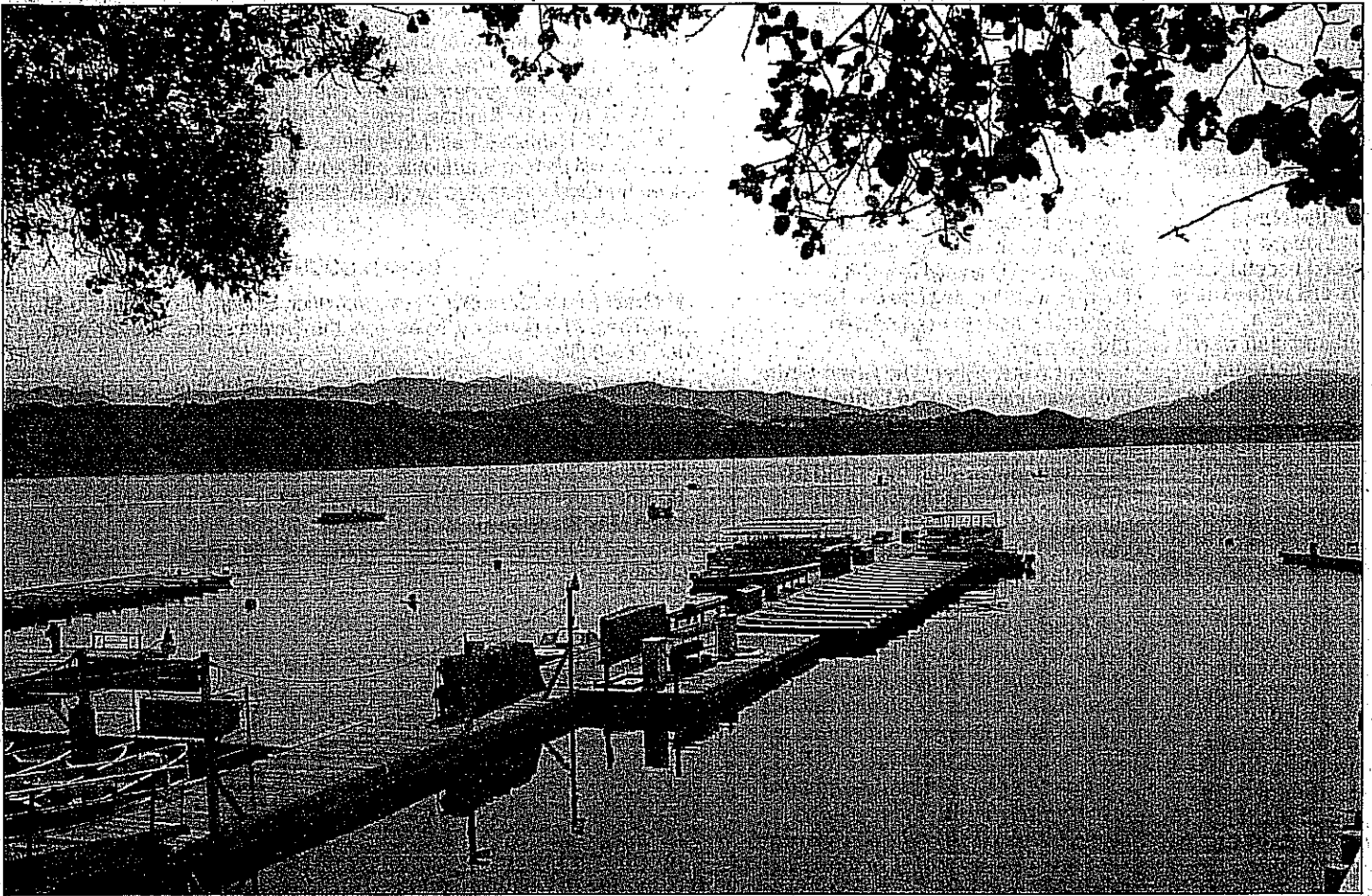
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ITEM # 5  
PAGE 18

# Decision delayed on Cachuma Lake boating ban



RAFAEL MALDONADO / NEWS-PRESS FILE

An official said Cachuma Lake, seen above in 2002, is facing an "imminent threat" of invasion by the non-native quagga mussel. The Santa Barbara County Board of Supervisors has delayed a decision on a request to temporarily ban private boating on the lake as a means of protecting it from infestation.

## Temporary measure proposed to prevent invasion by quagga mussels

By **NORA K. WALLACE**  
NEWS-PRESS STAFF WRITER

Unwilling to force an immediate ban on private boating in Cachuma Lake as a way to deal with the fear of a mollusk infestation, the Santa Barbara County Board of Supervisors on Tuesday delayed any measures against the invasive quagga mussel for two weeks.

The Cachuma Operations Maintenance Board has asked the county to enforce a six-month ban on private vessels at the lake as a preventative measure, after the destructive mussel was discovered in other Southern California lakes.

The mollusk, which could infest the water delivery equipment and affect water flow,

*"Once they're here, it could be a multimillion dollar constant maintenance nightmare."*

**Kate Rees,**  
general manager of the Cachuma Operations Maintenance Board on the prospect of Cachuma Lake suffering an invasion by the non-native quagga mussel

has not yet been found in Cachuma, which supplies 80 percent of the South Coast's water.

"Once they're here, it could be a multimillion dollar constant maintenance nightmare," Kate Rees, general manager of the

operations and maintenance board, said.

There is, she said, "an imminent threat right now with quagga mussels coming up right now."

Please see **CACHUMA** on **A10**

ITEM # 5

PAGE 19

# Supervisors' ad hoc con

## ■ CACHUMA

Continued from Page A1

First District Supervisor Salud Carbajal and 2nd District Supervisor Susan Wolf had to leave the hearing because of other commitments, but not before Mr. Carbajal suggested the formation of an ad hoc committee to discuss options for fending off an infestation.

The full board agreed to that idea, and the matter will again come to the board on March 25.

"No matter what we decide to do, it's important we discuss financial sharing of some of the suggestions recommended," Mr. Carbajal said.

If the lake is closed to private boaters, the county's loss this fiscal year is estimated at \$186,500, while a total annual loss is estimated at \$569,400, based on daily and annual boat fees and costs related to boating, such as automobile entrance fees, overnight camping fees and concession sales. The county could also be forced to repay a state grant of \$2.7 million, which had been used to construct a boat launch.

The mussel is particularly dangerous to the lake, Ms. Rees said, because it can reproduce at an alarming rate, quickly taking over a lake and attaching itself to pipes and filters which are used to funnel drinking water to customers.

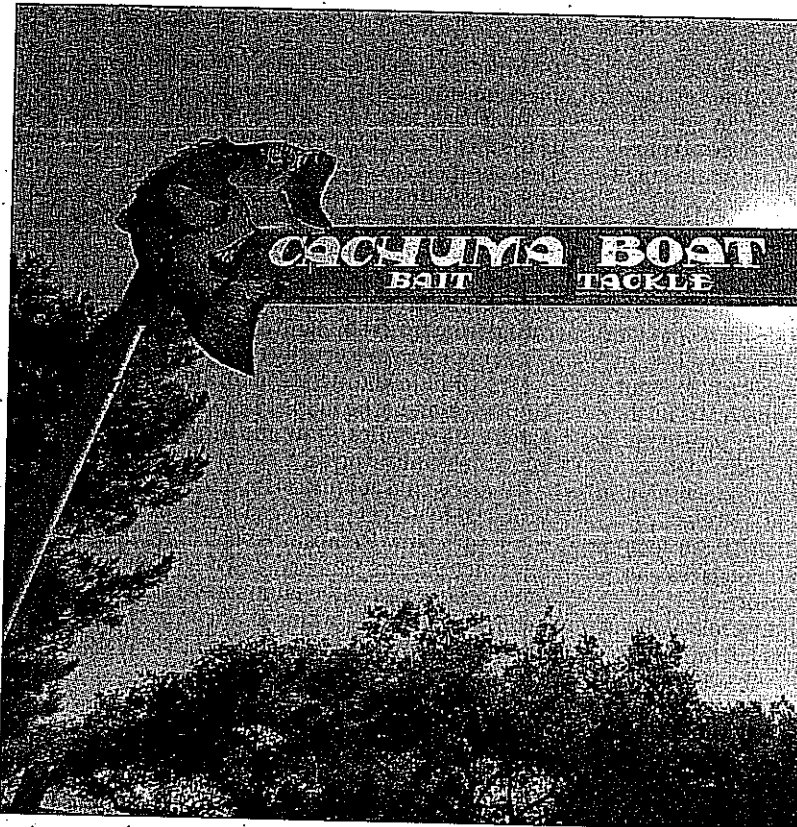
Assuming a 10 percent survival rate, she said, in one year the mussel can reproduce to create 100,000 offspring.

The mussel or its larvae are most often transported from one waterway to the next via boats and other watercraft.

"We have never had this sort of threat before," Ms. Rees said.

The county is already conducting a number of measures to prevent the introduction of the mollusk, said Dan Hernandez, county parks director. Warning signs are in place at the lake and on the county's Web site, and inspections continue. The county is also doing visual and tactile inspections of docks, and is inspecting the marina monthly, Mr. Hernandez said.

The lake's boat ramp is closed for the next three weeks, so no private boats are on the lake for now anyway.



The prospect of an invasion by the quagga mussel has some consider Cachuma Lake as a preventative measure.

*"Montecito gets 65 percent of its water from Lake Cachuma. A closure should happen immediately. If the mussels do, we recognize this situation is very serious."*

**Tom Mosby,**

general manager of the Montecito Water District

Measures being considered to prevent infestation include decontamination systems, banning boats from infected waters and dry-dock storage that would allow boat owners to keep their vessels nearby.

The question of cost was broached by a number of speakers. Charles Hamilton, general manager of the Carpinteria Valley Water District, wondered ultimately who would pay.

"I can tell you, water district customers are not going to feel good about

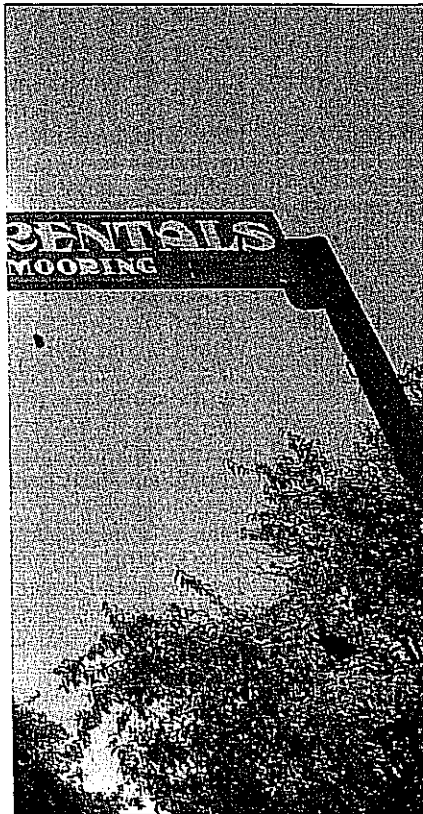
paying for something that is introduced by recreation activities over which they have no control," he said.

The issue, he added, "must be addressed by everybody. The solution to this has to be cooperation."

South Coast resident Tom Raftican, president of the United Anglers of Southern California, said his membership is concerned about the potential ban on boating.

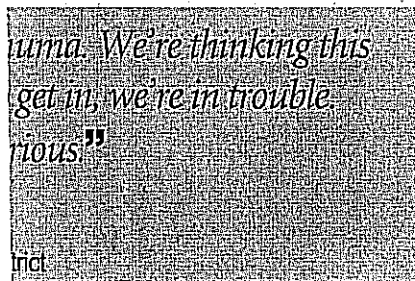
"There are ways of really getting the stuff done without simply closing

# mittee to explore options



RAFAEL MALDONADO / NEWS-PRESS FILE

ng a ban on private boating on



down the lake," he said.

He's heard of a quagga-sniffing dog that can detect the mussels, and spoke of the need for clean, dry boats.

"It's so important to keep this place open," Mr. Raftican said. "There are ways of getting it done. We want to be part of the solution."

If the lake is closed to boaters, the popular trout derby in mid-April may have to be canceled, said Patricia Martin, president of the Cachuma Lake Nature Center. The nonprofit

## Quagga Mussel (*Dreissena rostriformis bugensis*)

• Quagga mussels are a small freshwater bivalve mollusk indigenous to the Dneiper River drainage of Ukraine.

• Their size ranges from microscopic to about two inches long. They live up to five years. A few individuals can produce millions of eggs and sperm.



• There are two species of *Dreissena* in North America, typically referred to as Zebra Mussels (*Dreissena polymorpha*) and Quagga Mussels. Despite

### Relative size



some minor morphological and ecological differences, both species are very similar and pose a significant threat. As filter feeders, these species remove food and nutrients from the water column very efficiently, leaving less or nothing for native aquatic species. They have the potential of collapsing entire food webs.

• These species clog pipes, ruin boat motors, and damage aquatic recreational equipment. Once established in a lake, routine maintenance is necessary and perpetual. Management costs are enormous, particularly for industrial water users like power stations and water supply agencies.

• Many species eat these mussels, including diving ducks, red-eared sunfish and some catfish, but predators cannot keep up with the explosive reproductive potential of these invasive mussels.

SOURCE: USGS; U.S. Fish & Wildlife Service

TOM DE WALT / NEWS-PRESS

organization operates on a \$63,000 annual budget, she said, and half of those funds are raised during the derby.

"If you are going to close the lake, please wait until after our trout derby so we can make enough money to go on providing these wonderful things for children and adults in Santa Barbara County," Ms. Martin said.

A number of speakers suggested allowing local boat owners to have access to the lake, as long as they could prove they had not been in infected waters.

Tom Mosby, general manager of the Montecito Water District, questioned whether the county had enough personnel for adequate inspections.

"Montecito gets 65 percent of its water from Lake Cachuma," he said. "We're thinking this closure should happen immediately. If the mussels do get in, we're in trouble. We recognize this situation is very serious."

Mr. Carbajal and 3rd District Supervisor Brooks Firestone will serve on the ad hoc committee.

e-mail: [twallace@newspress.com](mailto:twallace@newspress.com)

## County delays action on invasive mussel

*By Malia Spencer/SENIOR STAFF WRITER*

A tiny mollusk is at the center of a large discussion pitting recreational boaters against local water agencies over how to best keep Lake Cachuma free of the invasive quagga mussel.

At a lengthy meeting Tuesday, the Santa Barbara County Board of Supervisors heard public testimony about a plan to possibly close Lake Cachuma, temporarily, to private boaters as a way to prevent the spread of the voracious mussel that is causing problems in Southern California.

Though the board did not make any final decisions, members directed staff to form an ad hoc committee - between the board, county administration, the parks department and the Cachuma Operations and Maintenance Board - to explore further protective measures.

Board Chairman Salud Carbajal and 3rd District Supervisor Brooks Firestone volunteered to represent the board on the committee.

After the staff presentation and information from the Cachuma Operations and Maintenance Board, which is asking for the boating restrictions, Carbajal, who represents the 1st District, and 2nd District Supervisor Janet Wolf had to leave for a prior commitment.

But before they left the dais, Carbajal suggested that the issue come back March 25.

County officials received the request to close the lake to private boats from the Cachuma Operations and Maintenance Board (COMB), which consists of South Coast agencies that receive water from Lake Cachuma.

If private boats were excluded, anglers would need to rent boats from the lake's marina.

Members of South Coast water agencies urged the county Tuesday to immediately take steps necessary to protect the water delivery pipes and other infrastructure.

Officials are worried that if the invasive mussel infests Cachuma, then it would affect downstream water infrastructure. The mollusk also could require expensive maintenance to the facilities in the lake.

"It could be really devastating for our entire water supply," COMB General Manager Kate Rees told the board.

However, some county boaters and anglers told the board that they shouldn't penalize locals.

Mark Gomes of Santa Maria told the board he was against closing the lake to private boats and argued that there is "not enough science" behind the staff's recommendation.

Tom Raftican, president of the United Anglers of Southern California who lives in the 2nd District, told the board he understood the need for the county and water agencies to take precautions but he also noted that it is "important to keep Cachuma open for recreation."

Quagga mussels, which are native to Eastern Europe, were introduced to the United States in the Great

Lakes region in 1988, according to the county's written staff report. The mollusks have spread throughout the Midwest and eastern United States. By 2007 quagga mussels were found in Lake Mead in Nevada and have since spread to other western states including California, according to the report.

Members of COMB are asking for restrictions on private boats, which can take the mussels from one body of water to the next, to allow the county time to implement a number of protective measures such as: establishing a decontamination protocol; purchasing and installing high-powered, heated sprayers and decontamination stations; and developing an exit inspection program.

According to the county staff report, some of the protective measures are already in place, such as having boaters sign a form about whether they have been in an infested lake.

In addition, the county makes regular inspections of the lake and marina, and posts mandatory boat inspection notices on the lake's Web site and distributes the notices in fliers.

Malia Spencer can be reached at 739-2219 or [mspencer@lompocrecord.com](mailto:mspencer@lompocrecord.com).

March 12, 2008



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### MUSSELS THREATEN CACHUMA

By India Allen, Staff Writer

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Lake Cachuma’s private boating operations could face temporary shutdown dead ahead as conduit authorities scramble to prevent an invasive non-native mussel from infesting the lake and possibly damaging reservoir apparatuses.

#### Private boating may be banned at Cachuma

Though it has been confirmed that Lake Cachuma does not have any Quagga Mussels, which were first identified in California in January and are indigenous to the Ukraine, the Cachuma Operations and Maintenance Board is pressing the County of Santa Barbara to make sure it stays that way.

COMB, which operates the South Coast conduit facilities that supply water to various areas in the county, is requesting that the county board of supervisors ban the use of private boats at the lake until measures can be established to prevent the mussel from infesting Lake Cachuma.

“As water suppliers, our concern is if Quagga Mussels get into the lake they could cause a permanent maintenance [problem] to the water supply reservoir,” said COMB’s general manager, Kate Rees. “We don’t think it’s a lot to ask to try and do whatever’s possible to try and prevent them from coming into the lake.”

Because the mussel attaches to boats and other wet surfaces, COMB is concerned that

ITEM # 5

PAGE 24 3/10/2008



private boaters could unknowingly infest the lake.

"Boaters travel," Rees said.

Some of the preventative measures COMB is recommending the lake institute include installing disinfecting stations that spray-wash boats with 140 degree water to kill the mussel and any of its larvae, and establish a boating tracking system — measures that would cost the county a minimum of \$200,000 and possibly up to \$1 million.

"I know it's expensive; there may be a temporary loss of revenue. But this would be a drop in the bucket if [the county] has to eradicate Quagga Mussels from Lake Cachuma," Rees said.

If the species does make its way into Lake Cachuma, it could attach to water pipes and other apparatuses that are vital to reservoir and conduit operations.

Rees sees the Quagga Mussel's presence in California as a potential "state of emergency" for California's water supply facilities.

There really isn't any way to get rid of them if they enter the lake. It hasn't hit the state yet, so people have no idea what sort of damaging effect the mussel could have.

The California Department of Fish and Game has made Quagga Mussel education a priority and is informing boaters about the invasive mussel and possible tactics they can use to prevent its spread.

"We have lots of multiple high-priority, but the Quagga Mussel is a priority not only for fish and game but for the state itself," said Alexia Retallack, spokesperson for fish and game. "It's a multi-billion dollar threat."

We are doing a massive education campaign, which included mailing out a letter to every registered boater... The California Department of food and Agriculture has inspected more than 82,000 boats since January 2007; of all of these, 104 had confirmed mussels on board."

Fish and game also has trained many people around the state on how to inspect vessels for the Quagga.

Though county officials agree that the Quagga Mussel is becoming a growing state-wide problem, the loss of Cachuma's private boating operation, however temporary, could prove to be arduous on an already strained budget.

"It would have a very significant impact on the county," said Jeff Stone, county deputy director of parks.

If the board of supervisors approves the temporary ban, the county could stand to lose over \$185,000 for the 2007-2008 fiscal year budget and over half a million dollars annually thereafter. The county also could be required to pay back \$2.7 million to the state in grant funding it's received for recreational boating purposes.

Stone added that the boating ban also could affect other revenues the lake receives, such as camping fees and concession income.

Cachuma charges \$8 for private boating and receives approximately 6,000 private boats each

ITEM # 5  
PAGE 25  
3/10/2008



year.

Currently, lake employees conduct inspections and require boaters to sign affidavits to verify that their boats are not carrying Quagga Mussels.

"We've been doing everything physically possible on the grounds...whether or not it's enough or not, you can't say," Stone said.

If the board of supervisors decides to implement a temporary ban on private boating at Lake Cachuma, it would follow similar ordinances that have been enforced at Lake Wolford and Lake Cuyamaca. Lake Casitas in Ventura County is also discussing possible options for dealing with the pending Quagga Mussel threat.

John Chluter, a Woodland Hills resident who often visits Lake Cachuma and Lake Casitas said it would be a loss if the county decided to implement the ban.

"I understand it," he said, "but I'd hate to have to go all the way to Vista Lake or Pyramid. It's nice out here."

The Santa Barbara County Board of Supervisors will be holding a public hearing about the Quagga Mussel and the proposed private boating ban March 11, at the Betteravia Government Center in Santa Maria, 511 East Lakeside Parkway. To view the agenda item, visit [www.countyofsb.org](http://www.countyofsb.org).

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Quagga Mussels --Photo courtesy of United States Geological Survey

# Possible mussel invasion might limit private boats



MIKE ELIASON / NEWS-PRESS

As fisherman head onto Cachuma Lake in a small boat, workers continue working on the new boat ramp set to open later this month. The lake could be closed to private boats, however, because of fears that invasive quagga mussels could be transported to the reservoir. Lake Casitas in Ventura County has already seen the banning of private boats.

## Water supply could be jeopardized as mollusk can clog pipes, filters

By **NORA K. WALLACE**  
NEWS-PRESS STAFF WRITER

The possibility of a highly destructive, invasive mussel threatening one of the county's main water sources has prompted a call for the temporary ban of private boats in Cachuma Lake.

The Board of Supervisors, at its Tuesday meeting in Santa Maria, will hear a request from the Cachuma Operations and Maintenance Board to take drastic measures to prevent the introduction of the quagga mussel.

The tiny mussel can reproduce up to 1 million offspring a year, can quickly take over a lake, clog pipes and filters and cause

a maintenance nightmare for water delivery systems. The mussel, or its larvae, is typically found attached to boats.

The mussel has made its way from the Great Lakes to Arizona and now has been found in San Diego County and other Southern California lakes.

Earlier this week, as a preventative measure, the Casitas Municipal Water Board voted to close Lake Casitas to outside private boats for one year.

While the mussel has not yet been found in Cachuma, the board that is responsible for delivering water to Santa Barbara, Goleta, Montecito and Carpinteria does not want to take any chances.

"This is an operational emergency," said

Kate Rees, manager of the operations and maintenance board. "This is a big-time, statewide emergency. We're encouraging the Board of Supervisors to do anything possible to prevent quaggas from coming into Lake Cachuma."

Though COMB controls the lake's water delivery, it has no authority over recreation at Cachuma, and thus cannot mandate the lake be closed to boaters. The Santa Barbara County Parks Department manages recreation at the site, and its overall recreation use is controlled by the Bureau of Reclamation, which could direct the county to close the water source to outside boaters,

ITEM #  
Please see **CACHUMA** on **A9**  
PAGE

5  
27

# BAN ON DOATS WOULD CUT REVENUE

## ■ CACHUMA

Continued from Page A1

Ms. Rees said.

The operations board is seeking a minimum six-month private boating prohibition. If the ban is put in place, it doesn't mean watercraft would be prohibited altogether. There are boat rentals available on site.

The quagga mussel and its cousin, the zebra mussel, are considered destructive, invasive aquatic species that grow to about an inch in diameter, according to the Department of Fish and Game. Eradicating them from the state's waterways is extremely difficult, according to the agency.

Their establishment in California waters "could result in an environmental and economic disaster," the department warns on its Web site.

"The quagga will upset the food chain by consuming phytoplankton that other species need to survive," according to Fish and Game. "They are filter feeders that consume large portions of the microscopic plants and animals that form the base of the food web. Their consumption of significant amounts of phytoplankton from the water decreases zooplankton and can cause a shift in native species and a disruption of the ecological balance of entire bodies of water. In addition, they can displace native species, further upsetting the natural food web."

If the quagga mussel attaches to the water supply equipment in Cachuma, it could cause severe damage and could possibly restrict the flow of water to the south, Ms. Rees said.

Once the quaggas are in the water system, "you can't eradicate them," Ms. Rees said. "It's brought in by equipment and boats. The main point is that it's not a ban on fishing, because there are rental boats. To our knowledge, there are no quaggas in Lake Cachuma and we want to keep it that way."

Closing the lake to private boats "would significantly affect boating-related revenues for the Parks Department," according to a county staff report for Tuesday.

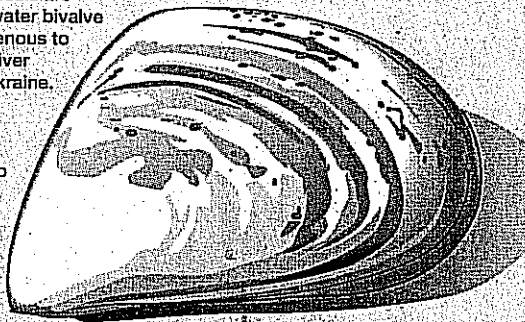
For the remainder of this fiscal year, the loss is estimated to be \$186,500, while the annual loss would be an estimated \$569,400, based on daily and annual boat fees, and costs related to boating, such as automobile entrance fees, overnight camping fees and concession sales.

The state Department of Boating and Waterways has indicated that if

## Quagga Mussel (*Dreissena rostriformis bugensis*)

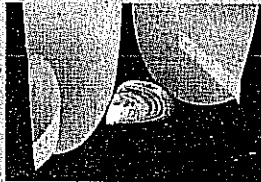
- Quagga mussels are a small freshwater bivalve mollusk indigenous to the Dneiper River drainage of Ukraine.

- Their size ranges from microscopic to about two inches long. They live up to five years. A few individuals can produce millions of eggs and sperm.



- There are two species of *Dreissena* in North America, typically referred to as Zebra Mussels (*Dreissena polymorpha*) and Quagga Mussels. Despite some minor morphological and ecological differences, both species are very similar and pose a significant threat. As filter feeders, these species remove food and nutrients from the water column very efficiently, leaving less or nothing for native aquatic species. They have the potential of collapsing entire food webs.

### Relative size



- These species clog pipes, ruin boat motors, and damage aquatic recreational equipment. Once established in a lake, routine maintenance is necessary and perpetual. Management costs are enormous, particularly for industrial water users like power stations and water supply agencies.

- Many species eat these mussels, including diving ducks, red-eared sunfish and some catfish, but predators cannot keep up with the explosive reproductive potential of these invasive mussels.

SOURCE: USGS; U.S. Fish & Wildlife Service

TOM DEWALT / NEWS-PRESS

the lake is closed to private boats, the county would be responsible for repayment of approximately \$2.7 million in grants used for the construction of recreational boat launching facilities.

The lake is currently closed until the end of the month because of weather delays during the construction of the new boat launch ramp.

"That lake has a long history of being used as a valuable resource for the boating community," said William Boyer, county spokesman. "In one respect, it's a statewide issue. It's not a local issue just for Santa Barbara County."

The operations board is seeking a number of preventative measures, including the installation of two high-temperature disinfection stations.

The county estimates a washing station would cost \$242,400 and would require an additional \$94,000 annually for staff to operate the machinery. The county suggests a boat cleaning surcharge of \$10 per vessel could be

instituted, which would bring in about \$60,500 annually.

Inspections have already been in place at Cachuma since February.

Signs at the entrance of the lake, and notices on the lake's Web site, tell of the inspections. Staff are inspecting all privately owned boats and keeping a copy of the inspection on file for each boater.

Boat owners are given extensive tips on how to prevent the spread of the quaggas. An estimated 4,000 letters were sent to previous lake users and to the fishing community, Mr. Boyer said.

"We don't have any infestation," Mr. Boyer noted. "The Parks Department has been doing everything it can to prevent any issues with the quagga mussels."

The parks department also trained all ranger staff with an instructional video, required UCSB's rowing team to decontaminate its vessels before entering the lake, created a spreadsheet to track quagga mussel management actions undertaken at

**DON'T MOVE A MUSSEL!**  
How do mussels hitch a ride?  
Don't let them hitch a ride on your California waters!  
When leaving the water:  
1. Inspect all equipment thoroughly.  
2. Wash the hull of each watercraft thoroughly.  
3. Remove all plants and animal material.  
4. Drain all water out of any air conditioning.  
5. Store out of the water outdoors only.  
6. Check out dry all equipment.  
7. Don't dump any grey or black water.  
8. Dispose of all fish in the trash.  
9. Wash 2 days and hose overnight dry between watercrafts.  
10. For more information visit www.dfw.ca.gov/mussels

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Trailer Anchor Deck Lines Live Wells Engine  
Vehicle Ramp Hull Ase Mussel

**CHECK YOUR BOAT, TRAILER AND VEHICLE**

MIKE ELIASON / NEWS-PRESS

A sign at Cachuma Lake warns boaters of the threat posed by quagga mussels and how to keep the invasive species from making their way into the lake.

regional lakes, and determined that the contractor who plants trout in the lake did not have any contact with contaminated waters, among other steps.

Ms. Rees said she's not certain the county parks inspections are enough, as the county hasn't been diving to look in the lake or evaluating plankton to see if the quaggas have established themselves. She's more concerned now that Lake Casitas is closed.

"Lake Casitas is a world-class bass fishing lake," she explained. "If all those people are coming to Casitas and can't go there, they'll be heading to Cachuma. And there's nothing in place yet. They're doing inspections on entry, but they can't catch everything."

Law Riffle, the conservation chairman for the Santa Barbara Flyfishers club in Santa Barbara, said a number of members do use the lake for fishing.

"The quagga closures are very disheartening," he said. "I don't know how else they'll deal with it."

Though most people associated with the state's lakes have known about the issue of quaggas for at least a year, Ms. Rees said the area is unprepared.

"In the state of California, it hit us all very quickly," she said. "I don't think the greater public realizes what a huge financial impact this will be throughout the state of California."



## Officials OK boat ban at Casitas

### Mussel infestation fear spurs year-long limit

By Zeke Barlow  
Wednesday, March 5, 2008

Despite the pleas of scores of fishermen who flock to Lake Casitas for its trophy-sized bass, officials voted Tuesday night to close the lake to outside private boats for one year in an effort to keep the invasive mussels out of the reservoir.

The ban, which takes effect immediately, will not allow boats from outside the lake because officials fear quagga mussels attached to a boat could multiply and cause millions of dollars in damage to infrastructure and change the ecology of the lake.

Fishing from shore, from rented boats or on vessels permanently stored at the lake will still be permitted. Officials repeatedly said the ban is not permanent.

Casitas is the largest, most popular lake in California to enact such stringent measures to protect itself against the quagga mussel. Fishermen feared other lakes would follow suit as the quagga problem continues to spread around the West.

In a debate that lasted 3 1/2 hours with nearly 300 people packed in the cafeteria at Nordhoff High School in Ojai, fishermen from around the state admonished the Casitas

Municipal Water Board to keep the lake open. The fishermen said they would do everything in their power to keep the dreaded quagga mussels at bay.

But the board ultimately voted 3-2 to close the lake to the roughly 30,000 boats that launch there annually, saying that while they understand the concerns of the fishermen, the primary job of the district is to provide water to more than 60,000 rate payers in western Ventura County.

Board members Bill Hicks and Jim Word were the dissenting votes, saying while they think a temporary ban is needed, one year is too long. But the board members who voted for the measure said the closure, which might not last an entire year, is greatly needed so they can figure out how to keep the mussels at bay.

Taking a breather

"What we are really grappling with is we want to take a breather and get our ducks in a row," said board member Rich Handley. "We are not going to close you guys out; this is not permanent."

Board members hoped their vote would send a message to state and federal agencies, which they said are dragging their feet in dealing with the quagga issue, board member Russ Baggerly said.

ITEM # 5

PAGE 27

But for the 27 fishermen who spoke and the hundreds in the audience who applauded their comments, the temporary closure was a huge blow.

“Closing Lake Casitas would effectively kill it as one of our country’s top three bass fisheries,” said Ron Cervenka, who organizes bass tournaments at the lake. “Understand that the attention you are going to take tonight is not going to affect just Lake Casitas. There are other lakes waiting for you to make your decision, and your decision would point them in the direction.”

Cachuma Lake is next

The Santa Barbara Board of Supervisors is scheduled to discuss a temporary ban at Cachuma Lake on Tuesday for similar reasons. Casitas started addressing quagga mussels about a year ago, shortly after they were discovered last year in Nevada’s Lake Mead.

The quagga, as well as the zebra mussel, has done more than \$5 billion in damage to the Great Lakes after it was brought from the Ukraine inside a ship ballast. It is believed that the mussels got to Lake Mead via a boat. Since then, the mussels have spread through the Colorado River system into other lakes and reservoirs.

One lake in San Diego County was closed to outside boats with the hopes of keeping the mussels away, but it didn’t have nearly the number of fishermen that Casitas attracts.

Earlier this year, the closely related zebra mussel was discovered for the first time in California in a San Benito County reservoir south of San Francisco.

Quagga mussels, which can reproduce up to 1 million offspring a year, can quickly take over a lake, clog pipes and filters and cause a maintenance nightmare for water delivery systems. Casitas officials have said that an infestation could financially break the district.

The mussels can also alter a waterway’s ecosystem by eating away the bottom of the food chain and starving fish and other animals that depend on the microorganisms.

Fishermen pleaded that not only would they lose their recreation, but businesses around Ventura County would also be affected.

Ojai resident Larry Elshere did an informal survey of local businesses and said he estimates the loss of revenue to the county could be as high as \$1.8 million.

“Before you make your final decision, I hope you take into account how it will affect the merchants and the businessmen in the community,” he said.

Joe Nasta said he recently retired and worked his whole life to get to the point where he could fish a few days a week on his new bass boat.

“What am I going to do when you close the lake?” he asked.

One of the most passionate appeals of the night came from actress Diane Ladd.

“If closing the lake would assure us pure water, I’d say go ahead, but if you have no proof that closing the lake will guarantee clean water, I beg you not to close the lake,” she said.

ITEM # 5  
PAGE 30

**Agenda**  
**Santa Barbara Countywide**  
**Integrated Regional Water Management Plan**  
**Cooperating Partners Meeting**  
**Wednesday, March 12, 2008**  
**1:30 pm – 4:30 pm**

Location: City of Santa Barbara, Granada Garage Conference Room

Directions: *Enter glass door to "Environmental Services", 1221 Anacapa St near Anapamu St; take elevator to 2<sup>nd</sup> floor*

**Conference call phone: 1-877-873-8016 and participant code 861785**

**AGENDA**

- 1:30 Welcome and introductions
- 1:40 Public comments for items not on the agenda
- 1:50 Approval of minutes from January 15th meeting
  
- 2:10 **Step 2 Application Status**
  - Strategy for Santa Barbara Region
  - Schedule and milestones for remainder of Prop 50
  - MOU for Prop 50 contract
  
- 3:10 **Prop 84- What's Next?**
  - Current status and what we know
  - MOU for Prop 84
  
- 4:15 **Next Meeting:** Time and Date to be decided at meeting
  
- 4:30 **Adjourn**

**Meeting Minutes**  
**Santa Barbara Countywide**  
**Integrated Regional Water Management Plan**  
**Cooperating Partners Meeting**  
**Tuesday, January 15, 2008**  
**9:00 am – 12:00 pm**

Location: Central Coast Water Authority, 255 Industrial Way in Buellton.

Directions: Exit Hwy 246 off Highway 101; head west on Highway 246;

Make a left on Industrial Way

***Conference call phone: 1-877-873-8016 and participant code 861785***

**Attendees**

**Cooperating Partners**

Robert Almy, SB County Water Agency (County); Joe Barget, Vandenberg Village CSD; Bill Ferguson, City of Santa Barbara, Water Resources Division; Autumn Malanca, City of Santa Barbara, Creeks Division; Gary McFarland, Goleta Water District; Teresa Reyburn, City of Santa Maria; Bruce Wales, Santa Ynez Water Conservation District

**On the Conference Call**

Craig Murray, Carpinteria Sanitary District; Autumn Malanca, City of Santa Barbara, Creeks Division; Kate Rees, COMB and CCRB; Bob McDonald, Carpinteria Valley Water District; Mike Maxwell, CH2MHill; Laura Eckert, CH2MHill;

**Others Present**

Kathy Caldwell, CH2MHill (CH); Tom Evans, Dudek; Shruti Chandra; Aspen Environmental

**Proceedings**

The meeting started at 9:05 AM. There were no Public comments for items not on the agenda. The meeting minutes from the December 19<sup>th</sup> meeting, were approved as written.

**Step 2 Application Status**

The good news is that CH has been working on hard on the engineering for the Disadvantaged Communities (DACs) and as a result, the Cuyama CSD projects have changed and the project comes in well under the original budget. Additionally, Laguna Sanitation's project also came in under the original grant request which resulted in the total grant request from the State being reduced. We are now under the \$25 Million dollar cap and we no longer have to do a reduction in all of the agencies request by 2%.

**Partners review of draft final application- January 14<sup>th</sup>- 17<sup>th</sup>**

ITEM # 7  
PAGE 2

The draft of the application was sent out yesterday and the CH staff won't be able to accept any comments after Thursday, January 17th. Kathy Caldwell brought a hard copy of the draft application to show the Partners that were in attendance what the application would look like. The hard copy she brought did not include all the exhibit and attachments.

Brian Whitaker of CH is still working on the DAC project presentation in the application. It will be posted on the ftp site once it is complete. References still need to be consistent throughout and so this needs to be worked on. Another issue is that the pagination keeps changing based on last minute changes. Comments will be incorporated Friday and production will begin next week.

Each person from CH that interviewed the Partners regarding their projects is currently now reviewing all the projects for consistency across the board. Kathy Caldwell asked the Partners to contact herself or Laura Eckert of CH if they had any questions.

Kathy then went over the status of each section. If your project in any way impacts groundwater either negatively or positively, then you will need a Groundwater Management Plan (GWMP). CH has divided the Partners into three categories based on their need for GWMP. Kathy said that we are now at a point where we need to knit the projects together. So far, we have been working separately on each of our projects. We need to figure out how to show that the projects are linked. Kathy put it out to the Partners to tell her how the projects might affect each other.

Gary McFarland pointed out that their well project will provide emergency supplies should COMB have any issues providing water. They both provide reliability of water supplies. Kathy asked that Gary provide some language to CH regarding this. This information will go in the Workplan (Att. 3). Carpinteria Valley Water District (CVWD) would have the same kind of linkage to the COMB project.

Integration is a weak factor among our projects. Our regional geography also puts us in this position. All the wastewater treatment plant projects can show that they are trying to increase water basin health, water quality and making better use of existing water supplies.

If the Santa Barbara Region is awarded grant funds and the County will take the lead on disbursing the funds, then each agency with a project will be reporting to the County on a quarterly basis. We will look at L.A and Ventura Prop 50 contracts and use some language from them which we will pull into our new MOU. A new MOU would be put into place in mid-May (when the other MOU expires). The structure would be an umbrella MOU with specific project agreements for each project.

The guidelines say that we should indicate a priority of projects. We may say something like all the projects are high priority. We could also say that the projects that are more ready to go would be higher priority. The City of Santa Barbara's project shows that the project plan would not be completed until end of 2008. The



City needs to provide language explaining timing clearly. We can also mention that we prioritized projects from the original 120 projects. Some are needed to address regulatory requirements as well as health and safety issues for safe drinking water. The DACs are a good example of that.

The Partners need to make sure that they have provided all supporting documentation to CH for the application. Please make sure when reviewing the draft application that if there are any references to documents which have not been provided, then they need to be provided to CH. The draft application was then reviewed by the Partners.

Attachments 3 and 6 are the places where need to score highly, the Partners should focus their review on those sections. Table 3-1 does not require Partners input as requested. CH can pull that information from the IRWMP.

Project Budgets- The 2% reduction to all grant requests is no longer needed. Please review the schedule.

We also need to explain what would happen if the project was not implemented. The internal team will try to address this first and then the Partners will be asked specific questions if need be.

Bruce Wales asked about the State review process and whether one person reviews the whole document or each individual attachment gets reviewed separately. This is difficult to predict, we hope that it will be reviewed in its entirety rather than in pieces.

The economic analysis is pretty well done. This section gets double points making it very important. We need to show the benefits of the project.

Program preferences- We are in a better position from Round 1 to Round 2. The preferences are more applicable to us for Round 2, which is good.

We have no letters of opposition, which is good. We need to apply costs of engineering for DACs as match. Kathy Caldwell stressed that the Partners need to make sure that there is consistency across the document.

#### Last minute information requests

If you get a call from CH in the next week, please make sure that you get everything to CH and make sure to coordinate with them ASAP.

#### Schedule now to application submittal

The Partners will finish review of the draft application and CH will begin production next week to turn in the application to the State on January 28<sup>th</sup>.

#### Next Steps after Application Submittal

ITEM # 7  
PAGE 4

We expect to hear from the State in April or May 2008 regarding the grant award status. It is expected that the State will make the actual award of funds in June 2008. Then a contract would need to be signed with the State by July 1<sup>st</sup>.

Draft guidelines for Prop 84 will be out in April. The Governor has about \$452 Million dollars allocated in his 2009 budget for this. It appears that the State is poised to move forward on Prop 84. They took a lot of criticism from Prop 50 and have learned a lot of lessons on how to structure the program.

We have two agreements to work on. One is to carry us through the Prop 84 process which will include maintaining and continuing to develop a relationship with other Central Coast interests. The more immediate agreement has to do with the structure with the grant award. We need to set up a meeting in mid-February to figure out how other contracts from Round 1 have looked and use it to create our next MOU. The target date for the Grant MOU maybe sometime in April or May 2008.

**Next Meeting:** Will be decided via email

**Adjourn at 11:10 AM**

**Meeting Minutes**  
**Santa Barbara Countywide**  
**Integrated Regional Water Management Plan**  
**Cooperating Partners Meeting**  
**December 15, 2007**  
**1:00pm -4:00pm**

**Location:** County of Santa Barbara, Administrative Building, 4th Floor, Board of Supervisors Conference Room

105 E. Anapamu Street, Santa Barbara

**Attendees**

**Cooperating Partners**

Robert Almy, SB County Water Agency (County); Joe Barget, Vandenberg Village CSD; Bill Ferguson, City of Santa Barbara, Water Resources Division; Autumn Malanca, City of Santa Barbara, Creeks Division; Kate Rees, COMB and CCRB; Gary McFarland, Goleta Water District; Kathleen Werner, Goleta Sanitary District; Craig Murray, Carpinteria Sanitary District; Marty Wilder, Laguna Sanitation District; Joe Barget, Vandenberg Village CSD.

**On the Conference Call**

Teresa Reyburn, City of Santa Maria

**Others Present**

Kathy Caldwell, CH2MHill (CH); Michael Maxwell, CH2MHill; Dana Larson, CH2MHill; Holly Myers, CH2MHill; Tom Evans, Dudek; Shruti Chandra; Aspen Environmental

**Proceedings**

The meeting was called to order at 1:10 PM by Rob Almy.

There were no public comments for items not on the agenda.

The minutes from the Cooperating Partners meeting on November 13, 2007 were approved with changes as Joe Barget's email to Shruti Chandra regarding a sentence about the City of Lompoc.

Kathy Caldwell took a few minutes to acknowledge how far the group had come since the last time we met in this room, which was the very first Partners kick-off meeting.

**Results from Step 2 Application Workshop- Thurs, December 6<sup>th</sup>**

Tom Evans and Kathy Caldwell attended the workshop in Riverside hosted by Department of Water Resources (DWR) and State Water Resources Control Board

(SWRCB) on December 6, 2007. According to the attendees, the focus of the workshop was on scores with a major emphasis on 1) Economic Benefits/Analysis, 2) Technical Feasibility /Scientific and Technical Merit 3) The Workplan.

The Step 2 application is more focused on knitting together how projects meet the program preferences and the guidelines. They learned that a novice should be able to understand the text very easily. The State emphasized organization of the application and that each section should stand alone, therefore there will be a lot of repetitiveness. If you can illustrate the benefits of a project through a figure, photo, this would be beneficial. The State said to make sure to not just make a statement without supporting it. The meeting gave the region's representatives an opportunity to network with the State staff people who would be reviewing our application. One of the uncertainties is that we don't know who will be reviewing our application.

Kathy Caldwell reviewed our application with the State but we hadn't selected our projects and therefore it was difficult to get into detail that was necessary for the application and that is why our score was lower in some areas.

Shruti Chandra prepared a comparison of the rankings of all the proposals to see how we scored compared to others. One change to the list of those invited back to Step 2 is that the San Luis Obispo region was added to the Step 1 list after the draft list was announced.

We will most likely get less than 25 million dollars. Not only is there a competition for money but also for a high score on the application

#### **Issues related to matching funds related to DACs**

The matching fund issue is more than complicated than we originally thought. Santa Maria is considered a Disadvantaged Community (DAC) even though we hadn't called it out before as one. So now, we as a region, look better because the two largest DACs are not requesting a waiver, despite the size/cost of their projects. We are not going to change our approach even though the DAC configuration has changed.

Kate Rees wanted to discuss the matching funds issue as it relates to the whole application. The State would rarely call out specific projects to not fund; therefore it will be up to the region to divvy up the funds. During the review of the final draft, the group will really have to take a close look at the mix of projects to determine whether the State will look favorably upon the mix as a whole. The two Cuyama projects are still currently in-flux. There are some issues related to the tank rehabilitation and the percolation pond project which may be resolved by incorporating a UV disinfection system. We need to take a close look at all the various challenges that these projects face to determine whether they can move forward.

Craig Murray wanted to confirm that the whole group will decide as to how to move forward with the mix of projects. If for whatever reason, funding to \$25 million is not granted, the MOU then spells out what the group would do if we were awarded less than

\$25 Million. There may be cases where the project proponent drops out because the funding will not be enough to move forward.

### **Additional Information Needed from Project Proponents**

CH2MHill (CH) will contact you directly if there is any missing information. As a whole, CH needs more photographs. Please provide them with as many photos as possible. Photos will make the application more attractive and interesting. Photos should go to Laura Eckert of CH and/or uploaded to the ftp site.

Letters of Support- Please obtain letters of support from your constituents as requested via email from Shruti Chandra. Please try to get State or Federal representatives to write letters as well. People such as Pedro Nava, Elton Gallegly, Lois Capps should be encouraged to write letters of support for projects. Shruti will send an email to the group letting them know when the due date for letters is.

### **Review of Attachments**

Any comments on the attachments as part of the draft Step 2 application are due back to CH by Friday, December 21, 2007. Provide CH with the actual language rather than comments regarding something not sounding right. CH says that we are about 50% complete, however, we should be farther along by now. The last draft of the application will be sent as one round. The same comment form will be used and the Partners will need to respond by the January 17, 2008.

The CH staff then went over each of the attachments and requested additional information from the Partners that were present at the meeting.

Holly Myers of CH2MHill is responsible for Attachments 3 and 6 which are the Workplan and Scientific/Technical Merit. Reformatting of the Workplans that were provided by the Partners took place to match the guidelines better. Holly needs each project proponent to identify data gaps and also identify how you are going to deal with that data gap. Please refer to the scoring criteria in the Step 2 guidelines to make sure you have addressed the requirements. Each project proponent needs to point out the page numbers for where the technical feasibility has been addressed. Check to make sure you have sent CH all the engineering, technical feasibility studies.

Dana Larson is responsible for Attachment 13 and Attachment 11- Please make sure to review these sections for accuracy.

Mike Maxwell is responsible for Budget and Schedule- All project costs should be stated in 2006 dollars...it should be in the same year for comparison. The project proponents also need to justify the basis for costs. Mike will contact those who still need to provide additional information.