

Board Meeting Agenda

Russ Baggerly, Director
Mary Bergen, Director
Bill Hicks, Director

Pete Kaiser, Director
James Word, Director

CASITAS MUNICIPAL WATER DISTRICT
March 27, 2013
3:00 P.M. – DISTRICT OFFICE

Right to be heard: Members of the public have a right to address the Board directly on any item of interest to the public which is within the subject matter jurisdiction of the Board. The request to be heard should be made immediately before the Board's consideration of the item. No action shall be taken on any item not appearing on the agenda unless the action is otherwise authorized by subdivision (b) of ¶54954.2 of the Government Code and except that members of a legislative body or its staff may briefly respond to statements made or questions posed by persons exercising their public testimony rights under section 54954.3 of the Government Code.

1. Public Comments
2. General Manager comments.
3. Board of Director comments.
4. Consent Agenda
 - a. Minutes of the March 12, 2013 Board Meeting.
5. Bills
6. Presentation by the Water Quality Supervisor regarding the Lake Casitas Water Quality Study by Flow Science.
7. Recommend approval of a purchase order to Water Quality Solutions in the amount of \$27,000 for feasibility of a hypolimnetic aeration system.

RECOMMENDED ACTION: Adopt Consent Agenda

RECOMMENDED ACTION: Motion approving recommendation

8. Information Items:
 - a. Investment Report.
9. Closed Session:
 - a. Conference with Legal Counsel -- Existing Litigation (Subdivision (a) of Section 54956.9, Government Code). Name of Case: Casitas Municipal Water District v. United States.
 - b. (Govt. Code Sec. 54957.6)
Conference with Labor Negotiators:
Agency Designated Representatives: Rebekah Vieira, Draza Mrvichin
Employee Organization: Supervisory & Professional, General Unit and Recreation Unit.
10. Adjournment

If you require special accommodations for attendance at or participation in this meeting, please notify our office 24 hours in advance at (805) 649-2251, ext. 113. (Govt. Code Section 54954.1 and 54954.2(a).

Minutes of the Casitas Municipal Water District
Special Board Meeting Held
March 12, 2013

A special meeting of the Board of Directors was held March 12, 2013 at Casitas' Office, Oak View, California. Directors Word, Hicks, Bergen, Kaiser and Baggerly were present. Also present were Steve Wickstrum, General Manager, Rebekah Vieira, Clerk of the Board, and Attorney, John Mathews. There were no staff members and one member of the public in attendance. President Word led the group in the flag salute.

1. Public Comments

None

2. General Manager comments.

Mr. Wickstrum reported that the Board will hear from Roger Marzulla on March 27th. He then mentioned that he may attend the State Water Contractors meeting in Sacramento on Friday.

3. Board of Director comments.

Mr. Mathews reminded the board to bring their ex parte communication forms to the meeting on Wednesday.

Director Kaiser mentioned he was at a softball tournament at Castaic and a Castaic employee was commenting on how strict our quagga restrictions are and expressed concern that neighboring lakes can't get together with the same restrictions.

4. Consent Agenda

ADOPTED

a. Minutes of the February 27, 2013 Board Meeting.

On the motion of Director Baggerly, seconded by Director Bergen and passed, the Consent Agenda was adopted.

5. Bills

APPROVED

Director Hicks questioned the use of the repair shop in Oxnard to service the chain saw and suggested we look for a closer vendor and perhaps utilize the shop close to the Boys & Girls Club Thrift Store in Ventura.

Director Kaiser questioned #14615 to Corvel. Ms. Vieira explained this is for a Workers' Compensation claim. Director Kaiser then questioned the purchase of toner cartridges and if Compuwave has the best price. Mr. Wickstrum explained that we have a buyer who does comparisons to find us the best pricing.

President Word questioned #14632 and Ms. Vieira explained that is also for a Workers' Compensation claim.

On the motion of Director Hicks, seconded by Director Bergen and passed, the bills were approved.

6. Committee/Manager Reports APPROVED FOR FILING

- a. Executive Committee Minutes

On the motion of Director Baggerly, seconded by Director Hicks and passed, the Committee/Manager Reports were approved for filing.

7. Recommend approval of leak relief to the Arroyo Mobile Home Park. APPROVED

On the motion of Director Baggerly, seconded by Director Hicks and passed, the above recommendation was approved.

8. Recommend approval of sponsorship of the Ojai Valley Chamber of Commerce's Annual Garden Tour in the amount of \$250.00. APPROVED

On the motion of Director Baggerly, seconded by Director Kaiser and passed the above recommendation was approved.

9. California Special District Association Board of Directors Call for Nominations. NO INTEREST

The Board did not express interest and will pass on the nominations at this time.

10. Information Items:

- a. Monthly Cost Analysis for operation of Robles, fisheries and fish passage.
- b. Monthly Cost Analysis for Ojai FLOW.
- c. Letter from Don Barker expressing gratitude to Brian Taylor and the pipeline crew for their work with a meter installation.
- d. Investment Report.

11. Closed Session:

President Word moved the meeting to closed session at 3:18 p.m.

- a. Public Employee Performance Evaluation (Govt. Code Sec. 54957)
Title: General Manager

President Word moved the meeting back into open session at 4:30 p.m. stating the board discussed the Performance Evaluation of the General Manager and no other action was taken.

12. Adjournment

President Word adjourned the meeting at 4:30 p.m.

Mary Bergen, Secretary

CERTIFICATION

Payroll disbursements for the pay period ending 03/16/13
Pay Date of 03/21/13
have been duly audited and are
hereby certified as correct.

Signed: Denise Collin 3/18/13
Denise Collin

Signed: _____
Signature

Signed: _____
Signature

Signed: _____
Signature

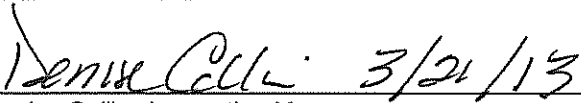
A/P Fund

Publication of check register is in compliance with Section 53065.6 of the Government Code which requires the District to disclose reimbursements to employees and/or directors.

000394 A/P Checks: 014732-014741
 A/P Draft to P.E.R.S.
 A/P Draft to State of CA
 A/P Draft to I.R.S.
 Void:

000395 A/P Checks: 014742-014844
 A/P Draft to P.E.R.S. 032133
 A/P Draft to State of CA 032132
 A/P Draft to I.R.S. 032131
 Void: 014797-014799

The above numbered checks,
have been duly audited are hereby
certified as correct.

 Denise Collin 3/21/13

Denise Collin, Accounting Manager

Signature

Signature

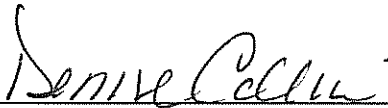

Signature

CASITAS MUNICIPAL WATER DISTRICT
 Payable Fund Check Authorization
 Checks Dated 3/13/13-3/21/13
 Presented to the Board of Directors For Approval March 27, 2013

| Check | Payee | | | Description | Amount |
|--------|-----------------------|---|------------|-------------------------------|--------------|
| 000394 | Payables Fund Account | # | 9759651478 | Accounts Payable Batch 031313 | \$58,832.70 |
| 000395 | Payables Fund Account | # | 9759651478 | Accounts Payable Batch 032113 | \$223,996.55 |
| | | | | | \$282,829.25 |
| 000396 | Payroll Fund Account | # | 9469730919 | Estimated Payroll 4/4/13 | \$130,000.00 |
| | | | | | \$130,000.00 |
| | | | | Total | \$412,829.25 |

Publication of check register is in compliance with Section 53065.6 of the Government Code which requires the District to disclose reimbursements to employees and/or directors.

The above numbered checks, 000394-000396 have been duly audited is hereby certified as correct.

 Denise Collin, Accounting Manager

 Signature

 Signature

 Signature

3/21/2013 10:47 AM
 VENDOR SET: 01 Casitas Municipal Water D
 BANK: * ALL BANKS
 DATE RANGE: 3/07/2013 THRU 3/21/2013

A/P HISTORY CHECK REPORT

| VENDOR I.D. | NAME | STATUS | CHECK DATE | INVOICE AMOUNT | DISCOUNT | CHECK NO | CHECK STATUS | CHECK AMOUNT |
|-------------|------------|--------|------------|----------------|----------|----------|--------------|--------------|
| C-CHECK | VOID CHECK | V | 3/21/2013 | | | 014797 | | |
| C-CHECK | VOID CHECK | V | 3/21/2013 | | | 014798 | | |
| C-CHECK | VOID CHECK | V | 3/21/2013 | | | 014799 | | |

| * * T O T A L S * * | NO | INVOICE AMOUNT | DISCOUNTS | CHECK AMOUNT |
|---------------------|---------------|----------------|-----------|--------------|
| REGULAR CHECKS: | 0 | 0.00 | 0.00 | 0.00 |
| HAND CHECKS: | 0 | 0.00 | 0.00 | 0.00 |
| DRAFTS: | 0 | 0.00 | 0.00 | 0.00 |
| EFT: | 0 | 0.00 | 0.00 | 0.00 |
| NON CHECKS: | 0 | 0.00 | 0.00 | 0.00 |
| VOID CHECKS: | 3 VOID DEBITS | 0.00 | | |
| | VOID CREDITS | 0.00 | 0.00 | |

TOTAL ERRORS: 0

| | | | | | |
|------------------------|---------|---|------|------|------|
| VENDOR SET: 01 BANK: * | TOTALS: | 3 | 0.00 | 0.00 | 0.00 |
| BANK: * | TOTALS: | 3 | 0.00 | 0.00 | 0.00 |

| VENDOR I.D. | NAME | STATUS | CHECK DATE | INVOICE AMOUNT | DISCOUNT | CHECK NO | CHECK STATUS | CHECK AMOUNT |
|--------------|---|--------|------------|----------------|----------|----------|--------------|--------------|
| 01441 | ADVANTAGE TELECOM, INC | | | | | | | |
| I-42286 | LCRA Monthly Phone Charges | R | 3/13/2013 | 674.97 | | 014732 | | 674.97 |
| 00821 | BEST BEST & KRIEGER LLP | | | | | | | |
| I-697695 | Matter#8235600001 2/13 | R | 3/13/2013 | 635.16 | | 014733 | | |
| I-697696 | Matter#8235600002 2/13 | R | 3/13/2013 | 139.20 | | 014733 | | 774.36 |
| 01616 | FRED BRENEMAN | | | | | | | |
| I-031113 | 3/3/13-3/16/13 | R | 3/13/2013 | 391.00 | | 014734 | | 391.00 |
| 01068 | CAPIO | | | | | | | |
| I-031213 | CAPIO Mememrship | R | 3/13/2013 | 225.00 | | 014735 | | 225.00 |
| 00055 | CASITAS BOAT RENTALS | | | | | | | |
| I-Feb 13 | Cafe Passes Reimburse Cafe Pass Revenue | R | 3/13/2013 | 1,967.03 | | 014736 | | 1,967.03 |
| 01055 | Neil Cole | | | | | | | |
| I-Feb 13 | Reimburse Mileage 2/13 | R | 3/13/2013 | 75.71 | | 014737 | | 75.71 |
| 02319 | Flow Science Incorporated | | | | | | | |
| I-0006835 | LCRA Aeration System Study | R | 3/13/2013 | 4,524.48 | | 014738 | | 4,524.48 |
| 00144 | BOB MONNIER | | | | | | | |
| I-Feb 13 | Reimburse Expenses 2/13 | R | 3/13/2013 | 96.05 | | 014739 | | 96.05 |
| 02496 | Native Electrical Construction | | | | | | | |
| I-021513 | LCRA Camp B Electrical Upgrade | R | 3/13/2013 | 49,875.00 | | 014740 | | 49,875.00 |
| 00188 | PETTY CASH | | | | | | | |
| I-030813 | Replenish Petty Cash | R | 3/13/2013 | 229.10 | | 014741 | | 229.10 |
| 00491 | GIBBS INTERNATIONAL TRUCK CTR | | | | | | | |
| I-435058 | Repair #68, LCRA Dump Truck | R | 3/20/2013 | 3,696.30 | | 014742 | | 3,696.30 |
| 00010 | AIRGAS USA LLC | | | | | | | |
| I-9908332193 | Cylinder Rental for Pipelines | R | 3/21/2013 | 28.29 | | 014743 | | 28.29 |
| 02211 | American Society of Safety Eng | | | | | | | |
| I-1001112825 | Membership | R | 3/21/2013 | 200.00 | | 014744 | | 200.00 |
| 00014 | AQUA-FLO SUPPLY | | | | | | | |
| I-417155 | Seal Clamp for Pipelines | R | 3/21/2013 | 232.74 | | 014745 | | |
| I-423182 | PVC Parts for O&M CS | R | 3/21/2013 | 21.67 | | 014745 | | |
| I-425990 | Plumbing for Splashpad | R | 3/21/2013 | 169.01 | | 014745 | | |
| I-427576 | Vacuum Breaker Kit, Maint | R | 3/21/2013 | 10.69 | | 014745 | | |
| I-427577 | Solenoid Valve Kit for "A"Camp | R | 3/21/2013 | 62.04 | | 014745 | | 496.15 |

| VENDOR I.D. | NAME | STATUS | CHECK DATE | INVOICE AMOUNT | DISCOUNT | CHECK NO | CHECK STATUS | CHECK AMOUNT |
|-------------|---|---|---|--|----------|--|--------------|--------------|
| 00840 | AQUA-METRIC SALES COMPANY I-0047088IN Meters & Parts, O&M CS | R | 3/21/2013 | 16,982.70 | | 014746 | | 16,982.70 |
| 01666 | AT & T I-000004151370 T-1 Line, Acct#8310001729783 I-000004153149 T-1 Lines, Acct#8310002969306 I-000004177135 Local, Regional, Long Distance Acct#C604513638777 | R R R | 3/21/2013 3/21/2013 3/21/2013 | 357.32 1,096.31 777.98 | | 014747 014747 014747 | | 2,231.61 |
| 00018 | AT & T MOBILITY I-829434088X03142013 Monthly Cell for Wildlife Biol | R | 3/21/2013 | 10.46 | | 014748 | | 10.46 |
| 00020 | AVENUE HARDWARE, INC I-50666 Epoxy, Paint Brushes for TP I-50694 Screws for Rincon PP | R R | 3/21/2013 3/21/2013 | 13.64 1.86 | | 014749 014749 | | 15.50 |
| 00021 | AWA OF VENTURA COUNTY I-032013 Waterwise Breakfast on 3/21/13 I-056546 2013 Annual Water Symposium | R R | 3/21/2013 3/21/2013 | 125.00 1,000.00 | | 014750 014750 | | 1,125.00 |
| 00030 | B&R TOOL AND SUPPLY CO I-1259410000101 Diaphragm Pump for Pipelines I-1259432000101 Auger for LCRA Maint I-1259633000101 Pipe Cutter Wheel for E&M Shop | R R R | 3/21/2013 3/21/2013 3/21/2013 | 1,825.92 15.28 11.21 | | 014751 014751 014751 | | 1,852.41 |
| 01153 | RUSS BAGGERLY I-Feb 13 Reimburse Mileage 2/13 | R | 3/21/2013 | 46.33 | | 014752 | | 46.33 |
| 00679 | BAKERSFIELD PIPE & SUPPLY INC I-S1889250001 SS Valves, Fittings for E & M | R | 3/21/2013 | 344.57 | | 014753 | | 344.57 |
| 00032 | BIOVIR LABORATORIES, INC I-121717 Giardia/Crypto 12/19/12 I-130085 Giardia/Crypto 1/17/13 I-130222 Giardia/Crypto 2/14/13 | R R R | 3/21/2013 3/21/2013 3/21/2013 | 396.48 396.48 396.48 | | 014754 014754 014754 | | 1,189.44 |
| 01062 | BP Medical Supplies C-B998787A Accrue Use Tax C-B998852MA Accrue Use Tax C-B998853MA Accrue Use Tax D-B998787A Accrue Use Tax D-B998852MA Accrue Use Tax D-B998853MA Accrue Use Tax I-B998787 CPR Masks for Waterpark I-B998852M Medical Supplies for Waterpark I-B998853M Medical Supplies for LCRA | R R R R R R R R R | 3/21/2013 3/21/2013 3/21/2013 3/21/2013 3/21/2013 3/21/2013 3/21/2013 3/21/2013 3/21/2013 | 30.00CR 65.80CR 34.22CR 30.00 65.80 34.22 400.00 877.43 456.35 | | 014755 014755 014755 014755 014755 014755 014755 014755 014755 | | 1,733.78 |

VENDOR SET: 01 Casitas Municipal Water D
 BANK: AP ACCOUNTS PAYABLE
 DATE RANGE: 3/07/2013 THRU 3/21/2013

| VENDOR I.D. | NAME | STATUS | CHECK DATE | INVOICE AMOUNT | DISCOUNT | CHECK NO | CHECK STATUS | CHECK AMOUNT |
|--------------|--------------------------------|--------|------------|----------------|----------|----------|--------------|--------------|
| 09798 | BUENA TILE SUPPLY | | | | | | | |
| I-510988 | Grout & Gloves for LCRA Maint | R | 3/21/2013 | 19.62 | | 014756 | | |
| I-511528 | Tile Sealer for I Showerhouse | R | 3/21/2013 | 73.83 | | 014756 | | 93.45 |
| 00055 | CASITAS BOAT RENTALS | | | | | | | |
| I-001428 | Repairs to Pac Angler, #136 | R | 3/21/2013 | 568.26 | | 014757 | | |
| I-Feb 13 Gas | Gas for Boat at LCRA | R | 3/21/2013 | 1,553.35 | | 014757 | | 2,121.61 |
| 00117 | CERTEX USA, INC | | | | | | | |
| I-1070321300 | Rope for Lazy River | R | 3/21/2013 | 396.23 | | 014758 | | 396.23 |
| 01843 | COASTAL COPY | | | | | | | |
| I-459482 | Copier Usage for LCRA | R | 3/21/2013 | 53.91 | | 014759 | | |
| I-459483 | Copier Usage for District Ofc | R | 3/21/2013 | 94.54 | | 014759 | | 148.45 |
| 00061 | COMPUWAVE | | | | | | | |
| I-SB02073004 | Toner Cartridges | R | 3/21/2013 | 426.27 | | 014760 | | 426.27 |
| 01902 | Conaway Ice Inc. | | | | | | | |
| I-156600 | Dry Ice for Fisheries | R | 3/21/2013 | 25.00 | | 014761 | | |
| I-9561308 | Dry Ice for Fisheries | R | 3/21/2013 | 13.44 | | 014761 | | |
| I-9561313 | Dry Ice for Fisheries | R | 3/21/2013 | 13.44 | | 014761 | | 51.88 |
| 00062 | CONSOLIDATED ELECTRICAL | | | | | | | |
| I-9009664109 | Fuse Clip Kit for Fairview PP | R | 3/21/2013 | 1,142.25 | | 014762 | | |
| I-9009673333 | Punch Down Tools for TP | R | 3/21/2013 | 69.98 | | 014762 | | |
| I-9009673450 | Fish Tape for Treatment Plant | R | 3/21/2013 | 74.65 | | 014762 | | |
| I-9009673489 | Start Up Services, Fairview PP | R | 3/21/2013 | 2,520.00 | | 014762 | | |
| I-9009673591 | Freight for Switchboard | R | 3/21/2013 | 1,125.00 | | 014762 | | 4,931.88 |
| 00719 | CORELOGIC INFORMATION SOLUTION | | | | | | | |
| I-80798959 | Realquest Subscription | R | 3/21/2013 | 125.00 | | 014763 | | 125.00 |
| 01146 | COUNTY OF VENTURA | | | | | | | |
| I-030513 | Costs Presidential Election | R | 3/21/2013 | 3,921.48 | | 014764 | | |
| Div 2 | | | | | | | | |
| I-030513A | Costs Presidential Election | R | 3/21/2013 | 5,331.23 | | 014764 | | |
| Div 3 | | | | | | | | |
| I-030513B | Costs Presidential Election | R | 3/21/2013 | 5,353.41 | | 014764 | | 14,606.12 |
| Div 5 | | | | | | | | |
| 01764 | CSG Systems, Inc. | | | | | | | |
| I-733984 | UB Mailing 1/25/13 | R | 3/21/2013 | 1,232.99 | | 014765 | | 1,232.99 |

| VENDOR I.D. | NAME | STATUS | CHECK DATE | INVOICE AMOUNT | DISCOUNT | CHECK NO | CHECK STATUS | CHECK AMOUNT |
|-------------|--------------------------------|--------|------------|----------------|----------|----------|--------------|--------------|
| 00296 | CUMMINS CAL PACIFIC, LLC | | | | | | | |
| I-00651841 | Repair Standby Generator TP | R | 3/21/2013 | 361.00 | | 014766 | | 361.00 |
| 02041 | Custom Mailing Solutions, Inc | | | | | | | |
| I-4410 | Mail Services for Newsletter | R | 3/21/2013 | 750.00 | | 014767 | | 750.00 |
| 02034 | D.K. Mechanical | | | | | | | |
| I-2590 | Service #88, Pump Truck | R | 3/21/2013 | 567.54 | | 014768 | | 567.54 |
| 00076 | DEKREEK TECHNICAL SERVICES | | | | | | | |
| I-63022 | SCADA Programming | R | 3/21/2013 | 1,984.00 | | 014769 | | |
| I-63023 | Scada Programming | R | 3/21/2013 | 2,625.00 | | 014769 | | |
| I-63024 | SCADA Programming | R | 3/21/2013 | 2,314.00 | | 014769 | | 6,923.00 |
| 00182 | DEWITT PETROLEUM | | | | | | | |
| I-0028214IN | Gas & Diesel for Main Yard | R | 3/21/2013 | 6,825.73 | | 014770 | | |
| I-0028344IN | Gas for LCRA | R | 3/21/2013 | 1,985.49 | | 014770 | | 8,811.22 |
| 00662 | Diamond A Equipment | | | | | | | |
| I-IX38246 | Blades for #277, Mower | R | 3/21/2013 | 90.56 | | 014771 | | 90.56 |
| 00085 | DON'S INDUSTRIAL SUPPLIES, INC | | | | | | | |
| I-351108 | Suction Hoses for New Pump | R | 3/21/2013 | 141.11 | | 014772 | | |
| I-351110 | Ball Valve, Anti-Seize, OVPP | R | 3/21/2013 | 61.03 | | 014772 | | 202.14 |
| 00086 | E.J. Harrison & Sons Inc | | | | | | | |
| I-2061 | Acct#1C00053370 | R | 3/21/2013 | 114.55 | | 014773 | | |
| I-804022813 | Acct#500546088 | R | 3/21/2013 | 280.00 | | 014773 | | 394.55 |
| 10085 | ELIFEGUARD, INC. | | | | | | | |
| C-40162A | Accrue Use Tax | R | 3/21/2013 | 84.30CR | | 014774 | | |
| D-40162A | Accrue Use Tax | R | 3/21/2013 | 84.30 | | 014774 | | |
| I-40162 | Lifestests for Waterpark | R | 3/21/2013 | 1,362.21 | | 014774 | | 1,362.21 |
| 00090 | ENVIRONMENTAL RESOURCE ASSOC | | | | | | | |
| I-680668 | Lab Sampling Supplies | R | 3/21/2013 | 1,097.90 | | 014775 | | 1,097.90 |
| 00095 | FAMCON PIPE & SUPPLY | | | | | | | |
| C-C148581 | Parts Returned on Inv#148409 | R | 3/21/2013 | 623.50CR | | 014776 | | |
| I-148408 | Gaskets for Pipelines | R | 3/21/2013 | 16.13 | | 014776 | | |
| I-148409 | Hytrol Cla Val Parts,Pipelines | R | 3/21/2013 | 3,280.90 | | 014776 | | |
| I-148718 | Pipe, Couplings,Ball Valves WH | R | 3/21/2013 | 2,798.23 | | 014776 | | |
| I-148763 | Parts for Meter Install 3M PP | R | 3/21/2013 | 1,112.63 | | 014776 | | 6,584.39 |

| VENDOR I.D. | NAME | STATUS | CHECK DATE | INVOICE AMOUNT | DISCOUNT | CHECK NO | CHECK STATUS | CHECK AMOUNT |
|--------------|--------------------------------|--------|------------|----------------|----------|----------|--------------|--------------|
| 00013 | FERGUSON ENTERPRISES INC #1083 | | | | | | | |
| I-9086303 | Valves for Coyote R/R | R | 3/21/2013 | 144.86 | | 014777 | | |
| I-9153387 | Valve, Teflon Tape, LCRA Maint | R | 3/21/2013 | 81.34 | | 014777 | | 226.20 |
| 00099 | FGL ENVIRONMENTAL | | | | | | | |
| I-300953A | Wet Chemistry-Total P Diss | R | 3/21/2013 | 1,499.40 | | 014778 | | |
| I-301181A | THM HAA5 2/4/13 | R | 3/21/2013 | 816.70 | | 014778 | | |
| I-301744A | Wet Chemistry-NO3 | R | 3/21/2013 | 43.00 | | 014778 | | 2,359.10 |
| 00713 | FLUID MANUFACTURING | | | | | | | |
| C-42327 | Locks Returned | R | 3/21/2013 | 223.17CR | | 014779 | | |
| I-42305 | Locks, Keys for WP Showerhouse | R | 3/21/2013 | 338.87 | | 014779 | | 115.70 |
| 00104 | FRED'S TIRE MAN | | | | | | | |
| I-65158 | 4 Tires for #15, O&M CS Truck | R | 3/21/2013 | 960.48 | | 014780 | | 960.48 |
| 00106 | FRONTIER PAINT | | | | | | | |
| I-F175363 | Paint for Playstructure | R | 3/21/2013 | 95.33 | | 014781 | | |
| I-F175504 | Paint Supplies for Waterpark | R | 3/21/2013 | 43.77 | | 014781 | | |
| I-F175901 | Paint for Waterpark | R | 3/21/2013 | 48.15 | | 014781 | | 187.25 |
| 01280 | FRY'S ELECTRONICS, INC. | | | | | | | |
| I-4933557 | Keyboards, Mouses for LCRA | R | 3/21/2013 | 53.98 | | 014782 | | 53.98 |
| 02158 | Google, Inc. | | | | | | | |
| I-5191691 | Additional Usage, IT Dept | R | 3/21/2013 | 10.83 | | 014783 | | 10.83 |
| 00115 | GRAINGER, INC | | | | | | | |
| I-9083417866 | Marking Chalk, Batteries | R | 3/21/2013 | 186.09 | | 014784 | | |
| I-9086020071 | Knockout Punch for TP | R | 3/21/2013 | 91.69 | | 014784 | | |
| I-9086020089 | Knee Boots for Treatment Plant | R | 3/21/2013 | 116.22 | | 014784 | | |
| I-9089366240 | Slings, Gloves, Glasses, TP | R | 3/21/2013 | 283.76 | | 014784 | | |
| I-9089665781 | Ear Plugs for Treatment Plant | R | 3/21/2013 | 45.58 | | 014784 | | |
| I-9090375602 | Sling for Treatment Plant | R | 3/21/2013 | 50.72 | | 014784 | | 774.06 |
| 00746 | GREEN THUMB INTERNATIONAL | | | | | | | |
| I-455995 | Plants for Water Conservation | R | 3/21/2013 | 59.89 | | 014785 | | |
| I-464959 | Plants for Fountain, LCRA | R | 3/21/2013 | 67.62 | | 014785 | | 127.51 |
| 00121 | HACH COMPANY | | | | | | | |
| I-8189746 | Reagents for Lab | R | 3/21/2013 | 276.90 | | 014786 | | 276.90 |
| 01052 | HARBOR FREIGHT TOOLS USA, INC | | | | | | | |
| C-0219440 | Credit#0219440 See 566584 | R | 3/21/2013 | 14.40CR | | 014787 | | |
| I-0219440 | Gloves for LCRA Maint | R | 3/21/2013 | 14.40 | | 014787 | | |
| I-0221112 | 50' Water Hoses for LCRA Maint | R | 3/21/2013 | 96.66 | | 014787 | | |
| I-566129 | Pick Up Stick for LCRA Maint | R | 3/21/2013 | 63.43 | | 014787 | | |
| I-566584 | Work Gloves for LCRA Maint | R | 3/21/2013 | 14.40 | | 014787 | | 174.49 |

VENDOR SET: 01 Casitas Municipal Water D
 BANK: AP ACCOUNTS PAYABLE
 DATE RANGE: 3/07/2013 THRU 3/21/2013

| VENDOR I.D. | NAME | STATUS | CHECK DATE | INVOICE AMOUNT | DISCOUNT | CHECK NO | CHECK STATUS | CHECK AMOUNT |
|-------------|--|--------|------------|----------------|----------|----------|--------------|--------------|
| 01594 | HIGHWAY TECHNOLOGIES, INC. I-460697001 Traffic Control Grand Ave Leak | R | 3/21/2013 | 674.66 | | 014788 | | 674.66 |
| 00127 | INDUSTRIAL BOLT & SUPPLY I-00133581 Valve Bolts for OVPP | R | 3/21/2013 | 24.30 | | 014789 | | |
| | I-00133609 Bolts, Nuts, Washers, OVPP | R | 3/21/2013 | 268.51 | | 014789 | | 292.81 |
| 00872 | Irrisoft, Inc. I-4513 Weather Station Services | R | 3/21/2013 | 79.00 | | 014790 | | 79.00 |
| 00131 | JCI JONES CHEMICALS, INC I-574362 Chlorine for TP, CM#574396 | R | 3/21/2013 | 1,770.00 | | 014791 | | 1,770.00 |
| 00667 | Kennedy/Jenks Consultants I-71703 Consulting-State Water Project | R | 3/21/2013 | 1,035.15 | | 014792 | | 1,035.15 |
| 02369 | Lawnscape Systems Inc I-342614 Weed Abatement at Casitas Dam | R | 3/21/2013 | 15,000.00 | | 014793 | | 15,000.00 |
| 01359 | LINDSAY ENGINEERING I-13036001 Vibration Testing & AnalysisTP | R | 3/21/2013 | 350.00 | | 014794 | | 350.00 |
| 02215 | Scott MacDonald I-031913 Advance for AWWA Conference | R | 3/21/2013 | 413.00 | | 014795 | | 413.00 |
| 00151 | MEINERS OAKS ACE HARDWARE I-539760 Cut Off Risers for Waterpark | R | 3/21/2013 | 12.36 | | 014796 | | |
| | I-540166 Sanding Disks for Waterpark | R | 3/21/2013 | 7.61 | | 014796 | | |
| | I-540735 Paint Buckets, Acetone for WP | R | 3/21/2013 | 58.92 | | 014796 | | |
| | I-540750 Conduit & Fitting for TP | R | 3/21/2013 | 37.23 | | 014796 | | |
| | I-540837 Garment Hook for E&M RR | R | 3/21/2013 | 4.10 | | 014796 | | |
| | I-540955 Wire Wheels, Bolts for WP | R | 3/21/2013 | 54.45 | | 014796 | | |
| | I-541340 Dewalt Drill for Dist Maint | R | 3/21/2013 | 161.24 | | 014796 | | |
| | I-541442 Spray Paint for Dist Maint | R | 3/21/2013 | 16.13 | | 014796 | | |
| | I-541601 Pole, Brush, PVC, Fisheries | R | 3/21/2013 | 16.79 | | 014796 | | |
| | I-541614 PVC Parts for Fairview Bal Res | R | 3/21/2013 | 13.74 | | 014796 | | |
| | I-541622 Cutoff Blades for Dist Maint | R | 3/21/2013 | 12.39 | | 014796 | | |
| | I-541633 Spraypaint,UBolt for Pipelines | R | 3/21/2013 | 22.08 | | 014796 | | |
| | I-541650 Caulk, Lubricant for PP | R | 3/21/2013 | 23.32 | | 014796 | | |
| | I-541794 Nuts & Bolts, Saw Blades,Maint | R | 3/21/2013 | 54.74 | | 014796 | | |
| | I-541797 Lopper for LCRA Maintenance | R | 3/21/2013 | 29.34 | | 014796 | | |
| | I-541888 Material to Install Toilets | R | 3/21/2013 | 44.52 | | 014796 | | |
| | I-541947 Lube Spray for Dist Maint | R | 3/21/2013 | 8.58 | | 014796 | | |
| | I-542069 Paint Supplies for Waterpark | R | 3/21/2013 | 59.42 | | 014796 | | |
| | I-542278 Duct Tape, Knee Pads, Fish | R | 3/21/2013 | 21.53 | | 014796 | | |
| | I-542399 Catch Rollers for Waterpark | R | 3/21/2013 | 3.70 | | 014796 | | |
| | I-542462 Screws for Shower Doors, LCRA | R | 3/21/2013 | 1.70 | | 014796 | | |

VENDOR SET: 01 Casitas Municipal Water D
 BANK: AP ACCOUNTS PAYABLE
 DATE RANGE: 3/07/2013 THRU 3/21/2013

| VENDOR I.D. | NAME | STATUS | CHECK DATE | INVOICE AMOUNT | DISCOUNT | CHECK NO | CHECK STATUS | CHECK AMOUNT |
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| I-542530 | Plywood for Matilija 2 | R | 3/21/2013 | 22.77 | | 014796 | | |
| I-542618 | Batteries, Couplers, Pipelines | R | 3/21/2013 | 9.26 | | 014796 | | |
| I-542647 | Filters for Shop Vac, Blo Gun | R | 3/21/2013 | 47.77 | | 014796 | | |
| | for Dist Maint | | | | | | | |
| I-542872 | Spray Paint, Nuts LCRA Maint | R | 3/21/2013 | 17.50 | | 014796 | | |
| I-542907 | Sanding/Grinding Mat'1 TP | R | 3/21/2013 | 40.46 | | 014796 | | |
| I-542908 | Drill Bit, Anchor for Dist Mnt | R | 3/21/2013 | 4.25 | | 014796 | | |
| I-542983 | Screw for LCRA | R | 3/21/2013 | 5.69 | | 014796 | | |
| I-542989 | Muriatic Acid for TP | R | 3/21/2013 | 7.08 | | 014796 | | |
| I-543035 | Trimline for Waterpark | R | 3/21/2013 | 9.12 | | 014796 | | |
| I-543215 | Grass Seed for Waterpark | R | 3/21/2013 | 12.36 | | 014796 | | |
| I-543222 | Broom, Shovel for O&M CS | R | 3/21/2013 | 23.37 | | 014796 | | |
| I-543259 | Various Tape for Pipelines | R | 3/21/2013 | 23.75 | | 014796 | | |
| I-543398 | Catch Friction for Waterpark | R | 3/21/2013 | 3.66 | | 014796 | | |
| I-543578 | Hardware for Waterpark | R | 3/21/2013 | 7.18 | | 014796 | | |
| I-543691 | Grass Seed for Waterpark | R | 3/21/2013 | 11.44 | | 014796 | | 909.55 |
| 00163 | OFFICE DEPOT | | | | | | | |
| I-648226390001 | Office Supplies | R | 3/21/2013 | 282.23 | | 014800 | | |
| I-648262511001 | Office Supplies | R | 3/21/2013 | 63.97 | | 014800 | | 346.20 |
| 01570 | Ojai Auto Supply LLC | | | | | | | |
| I-270259 | Fuse for Lifts Bed, #54 | R | 3/21/2013 | 14.38 | | 014801 | | |
| I-270359 | Power Steering Fluid, #34 | R | 3/21/2013 | 11.80 | | 014801 | | 26.18 |
| 00165 | OJAI LUMBER CO, INC | | | | | | | |
| I-1303611904 | Door Casing WP Showerhouse | R | 3/21/2013 | 8.44 | | 014802 | | 8.44 |
| 00602 | OJAI TRUE VALUE | | | | | | | |
| I-42304 | Vinegar, Lime A Way for Maint | R | 3/21/2013 | 21.35 | | 014803 | | 21.35 |
| 00168 | OJAI VALLEY NEWS | | | | | | | |
| I-02725359001 | AD for Hearing 3/6/13 | R | 3/21/2013 | 530.00 | | 014804 | | 530.00 |
| 00169 | OJAI VALLEY SANITARY DISTRICT | | | | | | | |
| I-15308 | Cust#20594 | R | 3/21/2013 | 150.63 | | 014805 | | |
| I-15390 | Cust#52921 | R | 3/21/2013 | 50.21 | | 014805 | | 200.84 |
| 00734 | ONESOURCE DISTRIBUTORS | | | | | | | |
| I-S3963221001 | Straight Cuff Gloves, E&M | R | 3/21/2013 | 93.96 | | 014806 | | |
| I-S3973591001 | Nuts for Uni-Strut Supports | R | 3/21/2013 | 143.32 | | 014806 | | 237.28 |
| 01381 | ONTRAC | | | | | | | |
| I-7638821 | Refrigerated Sample to Biovir | R | 3/21/2013 | 4.30 | | 014807 | | 4.30 |

| VENDOR I.D. | NAME | STATUS | CHECK DATE | INVOICE AMOUNT | DISCOUNT | CHECK NO | CHECK STATUS | CHECK AMOUNT |
|--------------|---------------------------------|--------|------------|----------------|----------|----------|--------------|--------------|
| 01627 | OSCAR'S TREE SERVICE | | | | | | | |
| I-10204 | Raise Trees along LCRA Road | R | 3/21/2013 | 1,000.00 | | 014808 | | 1,000.00 |
| 00178 | PARADISE CHEVROLET | | | | | | | |
| I-596185 | Temp Controller Knobs, #34 | R | 3/21/2013 | 39.80 | | 014809 | | 39.80 |
| 10072 | PERMACOLOR, INC | | | | | | | |
| I-275180 | Coat Spools & Wheel, FairviewPP | R | 3/21/2013 | 186.08 | | 014810 | | 186.08 |
| 02187 | Pitney Bowes Inc | | | | | | | |
| I-571102 | Ink/Sealer for Postage Machine | R | 3/21/2013 | 268.17 | | 014811 | | 268.17 |
| 00988 | PLUMBERS WAREHOUSE #1455 | | | | | | | |
| I-0056263 | Plumbing Parts for LCRA Maint | R | 3/21/2013 | 35.27 | | 014812 | | 35.27 |
| 01334 | POWER MACHINERY CENTER | | | | | | | |
| I-C12212 | Valve for Forklift #287 | R | 3/21/2013 | 21.36 | | 014813 | | 21.36 |
| 10042 | PSR ENVIRONMENTAL SERVICE, INC | | | | | | | |
| I-5909 | Gas Tank Inspection, LCRA | R | 3/21/2013 | 210.00 | | 014814 | | |
| I-5910 | Gas Tank Inspection Main Yard | R | 3/21/2013 | 210.00 | | 014814 | | 420.00 |
| 02473 | Roadline Products Inc. USA | | | | | | | |
| I-9556 | Traffic/Striping Paint, LCRA | R | 3/21/2013 | 238.12 | | 014815 | | 238.12 |
| 02502 | Rock House Products Internatio | | | | | | | |
| C-25980A | Accrue Use Tax | R | 3/21/2013 | 626.85CR | | 014816 | | |
| D-25980A | Accrue Use Tax | R | 3/21/2013 | 626.85 | | 014816 | | |
| I-25980 | Thermal Handheld Camera | R | 3/21/2013 | 8,358.00 | | 014816 | | 8,358.00 |
| 00313 | ROCK LONG'S AUTOMOTIVE | | | | | | | |
| I-8092 | Fuel Filter, Diagnosis, Eq#27 | R | 3/21/2013 | 238.39 | | 014817 | | |
| I-8096 | Lube & Oil Change, #28, Maint | R | 3/21/2013 | 85.91 | | 014817 | | |
| I-8119 | Lube & Oil Change, #25, Lab | R | 3/21/2013 | 129.63 | | 014817 | | |
| I-8130 | Lube & Oil Change, #34, Wtr Pmp | R | 3/21/2013 | 948.37 | | 014817 | | |
| I-8136 | Lube & Oil, #39, Maint, Battery | R | 3/21/2013 | 314.27 | | 014817 | | 1,716.57 |
| 00314 | ROLLS SCAFFOLD & HIGH REACH | | | | | | | |
| I-6047878S1I | Scaffolding Rental for TP | R | 3/21/2013 | 51.31 | | 014818 | | 51.31 |
| 01109 | SALVADOR LOERA TRANSPORTATION | | | | | | | |
| I-12310 | Fill Sand for Yard Bins | R | 3/21/2013 | 455.00 | | 014819 | | 455.00 |

VENDOR SET: 01 Casitas Municipal Water D

BANK: AP ACCOUNTS PAYABLE

DATE RANGE: 3/07/2013 THRU 3/21/2013

| VENDOR I.D. | NAME | STATUS | CHECK DATE | INVOICE AMOUNT | DISCOUNT | CHECK NO | CHECK STATUS | CHECK AMOUNT |
|-------------|--------------------------------|--------|------------|----------------|----------|----------|--------------|--------------|
| 01992 | Salinas Tree Service | | | | | | | |
| I-1902 | Trim Trees at Casitas Dam Gate | R | 3/21/2013 | 1,200.00 | | 014820 | | |
| I-1904 | Remove Dead Pine, Casitas Dam | R | 3/21/2013 | 400.00 | | 014820 | | 1,600.00 |
| 01105 | SEARS COMMERCIAL ONE | | | | | | | |
| I-T944378 | Drill Set for LCRA Maint | R | 3/21/2013 | 91.90 | | 014821 | | 91.90 |
| 00211 | SECORP INDUSTRIES | | | | | | | |
| I-I0024277 | Calibrate Gas Detector, TP | R | 3/21/2013 | 75.00 | | 014822 | | |
| I-I0024278 | Calibrate Gas Detector, TP | R | 3/21/2013 | 75.00 | | 014822 | | 150.00 |
| 02344 | ServiceMaster Building Mainten | | | | | | | |
| I-12353A | Janitorial Srvcs, 3/13, D.O. | R | 3/21/2013 | 1,032.00 | | 014823 | | 1,032.00 |
| 01345 | MIKE SHIELDS | | | | | | | |
| I-031413 | T5 Certification Renewal | R | 3/21/2013 | 105.00 | | 014824 | | 105.00 |
| 00725 | SMART & FINAL | | | | | | | |
| I-030813 | Breakroom Supplies Dist Ofc | R | 3/21/2013 | 100.62 | | 014825 | | |
| I-186 | Vinegar and Coffee, TP | R | 3/21/2013 | 43.09 | | 014825 | | 143.71 |
| 01944 | Luke Soholt | | | | | | | |
| I-031913 | Advance for AWWA Conference | R | 3/21/2013 | 413.00 | | 014826 | | 413.00 |
| 02003 | Sostre & Associates | | | | | | | |
| I-2190 | CMS Fee, Web Hosting, Website | R | 3/21/2013 | 249.00 | | 014827 | | 249.00 |
| 10100 | SPECIALTY MARINE, INC | | | | | | | |
| I-030213 | Parts for Pac Angler, Eq#136 | R | 3/21/2013 | 246.73 | | 014828 | | |
| I-1617 | 600 Hour Service, Eq#289 Boat | R | 3/21/2013 | 1,005.32 | | 014828 | | 1,252.05 |
| 01696 | SUPERIOR MACHINE | | | | | | | |
| I-2050 | Machine Pipe Ojai Valley PP | R | 3/21/2013 | 800.00 | | 014829 | | 800.00 |
| 00825 | USA BLUEBOOK | | | | | | | |
| I-894978 | Safety Handrailfor Reservoir | R | 3/21/2013 | 217.69 | | 014830 | | 217.69 |
| 00247 | County of Ventura | | | | | | | |
| I-030613 | Encroachment Permits 2/13 | R | 3/21/2013 | 1,540.00 | | 014831 | | 1,540.00 |
| 00254 | VENTURA LOCKSMITHS | | | | | | | |
| I-32985 | Keypads for Safes at LCRA | R | 3/21/2013 | 709.37 | | 014832 | | 709.37 |

VENDOR SET: 01 Casitas Municipal Water D
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 DATE RANGE: 3/07/2013 THRU 3/21/2013

| VENDOR I.D. | NAME | STATUS | CHECK DATE | INVOICE AMOUNT | DISCOUNT | CHECK NO | CHECK STATUS | CHECK AMOUNT |
|-------------|---|--------|------------|----------------|----------|----------|--------------|--------------|
| 00256 | VENTURA RENTAL CENTER, INC. Rent Z-Boom Lift, Waterpark | R | 3/21/2013 | 1,018.00 | | 014833 | | 1,018.00 |
| 09955 | VENTURA WHOLESALE ELECTRIC Circuit Breakers LCRA Camp I | R | 3/21/2013 | 75.25 | | 014834 | | 75.25 |
| 01283 | Verizon Wireless Monthly Cell Phone Chrgs, DO Acct#77062830400001 | R | 3/21/2013 | 615.74 | | 014835 | | |
| | I-9700983949 Monthly Cell Phone Chrgs, LCRA | R | 3/21/2013 | 196.75 | | 014835 | | 812.49 |
| 01830 | WATERTRAX USA Annual Software Subscription | R | 3/21/2013 | 3,840.77 | | 014836 | | 3,840.77 |
| 01203 | DENISE COLLIN Reimburse Expenses 2/13, 3/13 | R | 3/21/2013 | 87.63 | | 014837 | | 87.63 |
| 1 | Jerry Calwell TS Refund | R | 3/21/2013 | 42.50 | | 014838 | | 42.50 |
| 1 | Leslie Stookey TS Refund | R | 3/21/2013 | 170.00 | | 014839 | | 170.00 |
| 00124 | ICMA RETIREMENT TRUST - 457 457 CATCH UP | R | 3/21/2013 | 634.61 | | 014840 | | |
| | I-DCI201303200682 DEFERRED COMP FLAT | R | 3/21/2013 | 2,580.76 | | 014840 | | |
| | I-DI%201303200682 DEFERRED COMP PERCENT | R | 3/21/2013 | 171.06 | | 014840 | | 3,386.43 |
| 01960 | Moringa Community PAYROLL CONTRIBUTIONS | R | 3/21/2013 | 16.75 | | 014841 | | 16.75 |
| 00985 | NATIONWIDE RETIREMENT SOLUTION 457 CATCH UP | R | 3/21/2013 | 864.53 | | 014842 | | |
| | I-DCN201303200682 DEFERRED COMP FLAT | R | 3/21/2013 | 4,157.84 | | 014842 | | 5,022.37 |
| 00180 | S.E.I.U. - LOCAL 721 SEIU 721 COPE | R | 3/21/2013 | 9.50 | | 014843 | | |
| | I-UND201303200682 UNION DUES | R | 3/21/2013 | 593.25 | | 014843 | | 602.75 |
| 00230 | UNITED WAY PAYROLL CONTRIBUTIONS | R | 3/21/2013 | 45.00 | | 014844 | | 45.00 |
| 00128 | INTERNAL REVENUE SERVICE Federal Withholding | D | 3/21/2013 | 21,878.32 | | 032131 | | |
| | I-T3 201303200682 FICA Withholding | D | 3/21/2013 | 22,464.66 | | 032131 | | |
| | I-T4 201303200682 Medicare Withholding | D | 3/21/2013 | 5,253.82 | | 032131 | | 49,596.80 |

| VENDOR I.D. | NAME | STATUS | CHECK DATE | INVOICE AMOUNT | DISCOUNT | CHECK NO | CHECK STATUS | CHECK AMOUNT |
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| 00049 | STATE OF CALIFORNIA | | | | | | | |
| I-T2 201303200682 | State Withholding | D | 3/21/2013 | 7,340.58 | | 032132 | | 7,340.58 |
| 00187 | CALPERS | | | | | | | |
| I-PBB201303200682 | PERS BUY BACK | D | 3/21/2013 | 66.87 | | 032133 | | |
| I-PER201303200682 | PERS EMPLOYEE PORTION | D | 3/21/2013 | 10,140.40 | | 032133 | | |
| I-PRR201303200682 | PERS EMPLOYER PORTION | D | 3/21/2013 | 12,242.37 | | 032133 | | 22,449.64 |

* * T O T A L S * *

| | NO | INVOICE AMOUNT | DISCOUNTS | CHECK AMOUNT |
|-----------------|-----|----------------|-----------|--------------|
| REGULAR CHECKS: | 110 | 203,442.23 | 0.00 | 203,442.23 |
| HAND CHECKS: | 0 | 0.00 | 0.00 | 0.00 |
| DRAFTS: | 3 | 79,387.02 | 0.00 | 79,387.02 |
| EFT: | 0 | 0.00 | 0.00 | 0.00 |
| NON CHECKS: | 0 | 0.00 | 0.00 | 0.00 |
| VOID CHECKS: | 0 | VOID DEBITS | 0.00 | |
| | | VOID CREDITS | 0.00 | |
| | | | 0.00 | |

TOTAL ERRORS: 0

| | | | | | | |
|----------------|----------|---------|-----|------------|------|------------|
| VENDOR SET: 01 | BANK: AP | TOTALS: | 113 | 282,829.25 | 0.00 | 282,829.25 |
| BANK: AP | TOTALS: | | 113 | 282,829.25 | 0.00 | 282,829.25 |
| REPORT TOTALS: | | | 116 | 282,829.25 | 0.00 | 282,829.25 |

INTEROFFICE MEMORANDUM

TO: STEVE WICKSTRUM
FROM: SUSAN MCMAHON
SUBJECT: AERATION
DATE: 03/22/2013

During 2012 Casitas hired *Flow Science Inc.* in order get a better understanding of lake water quality, and to evaluate the performance of the current aeration system. The "Lake Casitas Water Quality Study" is the result. Reasons for the study include low dissolved oxygen levels in the lake during summer and fall which ultimately resulted in taste and odor issues for our customers and problems at the treatment plant.

The study resulted in more knowledge of lake dynamics and modeling that can be used to help us determine what may result when we change certain parameters with the current aeration system such as air flow, depth of aerators, type of diffusers, bubble size, and number of aerators in use. I will be reporting the findings of this report in more detail at the Board of Directors meeting on 03/27/13.

Additionally, I recommend that we move forward with a follow up study by *Water Quality Solutions* (see attachment) on the feasibility of a hypolimnetic aeration system, or a hybrid system for Lake Casitas. Some form of hypolimnetic aeration may provide a larger area of useable water for the treatment plant, and may help reduce the internal loading from phosphorous.

Lake Casitas is the most important asset of our water district and recreation area. Stratification and anoxia has become more pronounced over time. Because of this it is appropriate to direct some of our resources towards research, and to consider upgrading our current aeration system. The cost of the study including tasks 1A, 1B and 1C is \$27,000. The amount of money remaining in the current budget is \$30,000.

Water Quality Solutions

1726 Three Springs Rd., McGaheysville, VA 22840

(540) 421-4638



March 15, 2013

Casitas Municipal Water District
1055 Ventura Avenue
Oak View, CA 93022

Attention: Ms. Susan McMahon

Subject: Proposal to Provide a Feasibility Study of a Hypolimnetic Oxygenation System for Lake Casitas
Casitas Municipal Water District
WQS 131003

Dear Susan,

This proposal is based on our previous conversations about the need for performing a feasibility study for a hypolimnetic oxygenation system for Lake Casitas (Casitas), which is owned and operated by the Casitas Municipal Water District (CMWD). This proposal includes a Background, Scope of Work, Budget, and Schedule.

Water Quality Solutions' (WQS) principal, Dr. Imad Hannoun, has extensive experience in the analysis and modeling of water quality in lakes and reservoirs and the design of aeration/oxygenation systems. Dr. Hannoun's resume is attached.

BACKGROUND

Lake Casitas has a capacity of approximately 250,000 acre-ft and a maximum depth of 267 ft. It is located in Ventura County, California. Casitas receives its inflows from the surrounding watershed. Withdrawals from Casitas are made to supply a water treatment plant and agricultural users. Due to past erratic inflows to the lake, Casitas exhibited significant fluctuations in water surface elevation (WSEL). Casitas receives some nutrients from its watershed. When coupled with internal nutrient loading, Casitas has exhibited some water quality issues and significant algal blooms, some resulting in taste and odor episodes.

Before the installation of an in-lake aeration system in 1969, Lake Casitas exhibited significant thermal stratification and a large anoxic hypolimnion. The anoxia resulted in high levels of dissolved iron and manganese, substantial internal nutrient recycling, and significant algae blooms. After the installation of a diffused aeration system in 1969, the reservoir became less stratified and water quality issues were somewhat improved.



In 2005, a new aeration system was installed and remains in operation. By inducing vertical mixing, the current aeration system entrains deep water (above the diffuser) and transports it to the surface as well as transporting water from the surface downwards. As a result, the temperature stratification in the lake is reduced and the entire water column above the diffuser remains oxic. However, there is a gradient in dissolved oxygen (DO) concentration that features the highest DO at the surface and gradually lower DO with depth. Below the diffuser, the hypolimnion is not impacted by the aeration system and becomes anoxic in the late summer and fall, with elevated concentrations of iron and manganese. By transporting some water from the surface to deeper strata, surface algae is also transported downwards. With the current aeration system, there are occasional heavy spring algae blooms and lesser fall blooms. These blooms sometimes cause taste and odor problems.

While the current aeration system provides an improvement over a lake with no aeration, it has some limitations as discussed above. In summary, surface algae can be transported downwards, possibly reducing filter runs at the water treatment plant. Secondly, the vertical transport of algae can spread taste and odor compounds in a large portion of the lake. Thirdly, the water below the diffuser becomes anoxic for a significant portion of the year and is rendered unfavorable for treatment and use.

At the present, a scoping study is required to further investigate improving water quality in Casitas by evaluating the pros and cons of hypolimnetic oxygenation. Hypolimnetic oxygenation has the potential to significantly improve the water quality in the reservoir by oxygenating the vast majority of the lake, thus reducing internal nutrient loading and minimizing issues related to iron and manganese. Furthermore, by maintaining a significant vertical stratification, hypolimnetic oxygenation can possibly maximize the use of the various ports on the outlet tower by allowing selective withdrawal from strata with the best water quality at any given time. A major drawback to hypolimnetic oxygenation is its cost, which is directly related to the relatively large size of the lake's anoxic zone.

Another potentially less costly option to improve water quality would involve a hybrid oxygenation system that only oxygenates the deeper strata of the lake, coupled with using the existing aerators (with possible minor modifications) to mix the upper lake strata. Such a system could achieve many of the benefits of a full hypolimnetic oxygenation system at potentially significant cost savings. The proposed work will identify the main elements of both full and hybrid oxygenation systems, pros and cons for each approach, and provide preliminary cost estimates for installation and operation.



SCOPE OF WORK

WQS proposes the following Scope of Work to evaluate potential improvements to the reservoir:

TASK 1A Evaluate Full Hypolimnetic Oxygenation Alternatives

Establish up to three hypolimnetic oxygenation alternatives for oxygenating the hypolimnion. These alternatives would include diffused oxygenation, Speece cone, and a system akin to the Speece cone whereby the oxygenation chamber is located on land (www.BlueinGreen.com). It is believed that a Speece cone is not a viable option due to the depth of Casitas and may be eliminated from further analysis at an early stage. The oxygen demand in the lake will be evaluated to determine the required oxygen feed rates. This will be performed through either DYRESM-WQ modeling or the use of previous model results and historical data. If modeling is needed, WQS will obtain DYRESM-WQ model input files from CMWD and up to two model runs for a two year representative period will be performed. Furthermore, this task will include providing a summary literature review discussing the biochemical benefits of hypolimnetic oxygenation. For each hypolimnetic oxygenation alternative, the following tasks will be performed:

- Provide sizing of major equipment (oxygen storage, diffusers, etc.).
- Provide schematics of the layout for the various components of each system, both on land and in the reservoir.
- Provide preliminary estimated capital costs for installation and start up.
- Provide annual preliminary estimated operational and maintenance costs.
- Discuss the benefits of oxygen trucking to the site vs. on-site generation including preliminary cost estimates.

TASK 1B Evaluate a Hybrid Oxygenation/Aeration System

Evaluate an alternative whereby only the lower strata of the lake will be oxygenated and the existing aerators will be maintained to provide a level of vertical mixing (with potential minor changes). An optimal volume for the oxygenated layer will be established and the corresponding oxygen demand will be computed either through modeling (up to two model runs for a two year representative period) or the use of previous model results and historical data. Furthermore, the following tasks will be performed:

- Provide approximate sizing of needed equipment.



- Provide schematics of the layout for the various components of each system, both on land and in reservoir.
- Provide preliminary estimated capital costs for installation and start up.
- Provide preliminary annual estimated operational and maintenance costs.
- Discuss the benefits of oxygen trucking to the site vs. on-site generation including preliminary cost estimates.

TASK 1C REPORTING

Prepare a DRAFT summary technical memorandum. Obtain comments from the team and finalize memo. Participate in conference calls and one meeting at CMWD. Prepare material needed for meetings.

BUDGET

The following is a table showing the budget per task. The total not-to-exceed budget is \$27,000.

| Task/Description | Estimated Budget |
|---|-------------------------|
| 1A – Evaluate Hypolimnetic Oxygenation Alternatives | \$ 13,000 |
| 1B – Evaluate a Hybrid Oxygenation/Aeration System | 9,000 |
| 1C – Reporting & Meetings | 4,000 |
| Total | \$27,000.00 |

SCHEDULE

The work schedule will be coordinated with CMWD and work will be completed by June 30th, 2013.

Please do not hesitate to call me at (540) 421-4638 with any questions that you may have. I look forward to working with you.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Imad A. Hannoun", written over a horizontal line.

Imad A. Hannoun, Ph.D., P.E.
Principal Consultant

**CASITAS MUNICIPAL WATER DISTRICT
TREASURER'S MONTHLY REPORT OF INVESTMENTS
03/21/13**

| Type of Invest | Institution | CUSIP | Date of Maturity | Adjusted Cost | Current Mkt Value | Rate of Interest | Date of Deposit | % of Portfolio | Days to Maturity |
|---|---|------------|------------------|---------------------|---------------------|------------------|-----------------|----------------|------------------|
| *TB | Federal Home Loan Bank | 313379EE5 | 06/14/19 | \$1,390,509 | \$1,385,964 | 1.625% | 10/03/12 | 10.95% | 2243 |
| *TB | Federal Home Loan Bank | 3133XFKF2 | 06/11/21 | \$739,343 | \$725,206 | 5.625% | 01/16/13 | 5.73% | 2960 |
| *TB | Federal Home Loan Bank | 3133XSP930 | 12/13/13 | \$709,383 | \$715,092 | 3.125% | 07/01/10 | 5.65% | 262 |
| *TB | Federal Home Loan Bank | 3133XWNB10 | 06/12/15 | \$713,666 | \$739,151 | 2.875% | 07/01/10 | 5.84% | 801 |
| *TB | Federal Home Loan Bank | 3134A4VG60 | 11/17/15 | \$752,044 | \$780,437 | 4.750% | 07/19/10 | 6.17% | 956 |
| *TB | Federal Home Loan MTG Corp | 3135G0ES80 | 11/15/16 | \$693,775 | \$703,032 | 1.375% | 03/12/12 | 5.56% | 1314 |
| *TB | Federal Home Loan MTG Corp | 3137EABA60 | 11/17/17 | \$1,168,725 | \$1,195,360 | 5.125% | 01/03/12 | 9.45% | 1676 |
| *TB | Federal Home Loan MTG Corp | 3137EABS70 | 09/27/13 | \$710,786 | \$714,546 | 4.125% | 07/01/10 | 5.65% | 186 |
| *TB | Federal Home Loan MTG Corp | 3137EACD90 | 07/28/14 | \$713,523 | \$725,809 | 3.000% | 07/01/10 | 5.74% | 487 |
| *TB | Federal Home Loan MTG Corp | 3137EADB2 | 01/13/22 | \$210,279 | \$207,288 | 2.375% | 02/11/13 | 1.64% | 3172 |
| *TB | Federal Natl MTG Assn | 31398AYY20 | 09/16/14 | \$714,118 | \$729,239 | 3.000% | 07/01/10 | 5.76% | 535 |
| *TB | US Treasury Inflation Index NTS | 912828JE10 | 07/15/18 | \$1,112,966 | \$1,250,052 | 1.375% | 07/06/10 | 9.88% | 1914 |
| *TB | US Treasury Notes | 912828JW10 | 12/31/13 | \$702,114 | \$707,357 | 1.500% | 07/01/10 | 5.59% | 280 |
| *TB | US Treasury Notes | 912828LZ10 | 11/30/14 | \$707,101 | \$722,477 | 2.125% | 07/01/10 | 5.71% | 609 |
| *TB | US Treasury Inflation Index NTS | 912828MF40 | 01/15/20 | \$1,098,184 | \$1,265,330 | 1.375% | 07/01/10 | 10.00% | 2454 |
| Accrued Interest | | | | | \$87,122 | | | | |
| Total in Gov't Sec. (11-00-1055-00&1065) | | | | \$12,136,514 | \$12,653,462 | | | 85.39% | |
| Total Certificates of Deposit: (11.13506) | | | | \$0 | \$0 | | | 0.00% | |
| ** | LAIF as of: (11-00-1050-00) | | N/A | \$444 | \$444 | 0.35% | Estimated | 0.00% | |
| *** | COVI as of: (11-00-1060-00) | | N/A | \$2,164,574 | \$2,164,574 | 0.65% | Estimated | 14.61% | |
| TOTAL FUNDS INVESTED | | | | \$14,301,532 | \$14,818,480 | | | 100.00% | |
| Total Funds Invested last report | | | | \$14,304,652 | \$14,828,738 | | | | |
| Total Funds Invested 1 Yr. Ago | | | | \$14,316,639 | \$14,768,843 | | | | |
| **** | CASH IN BANK (11-00-1000-00) EST. | | | \$4,672,584 | \$4,672,584 | | | | |
| | CASH IN Western Asset Money Market | | | \$9 | \$9 | 0.010% | | | |
| | CASH IN PIMMA Money Market | | | \$0 | \$0 | 0.000% | | | |
| TOTAL CASH & INVESTMENTS | | | | \$18,759,320 | \$19,491,074 | | | | |
| TOTAL CASH & INVESTMENTS 1 YR AGO | | | | \$17,764,989 | \$18,217,193 | | | | |

- *CD CD - Certificate of Deposit
- *TB TB - Federal Treasury Bonds or Bills
- ** Local Agency Investment Fund
- *** County of Ventura Investment Fund
- Estimated interest rate, actual not due at present time.
- **** Cash in bank

No investments were made pursuant to subdivision (j) of Section 53601, Section 53601.1 and subdivision (i) Section 53635 of the Government Code.
All investments were made in accordance with the Treasurer's annual statement of investment policy.