CRESCENTA VALLEY WATER DISTRICT

2700 Foothill Boulevard
La Crescenta, California

Agenda for the
Regular Meeting of the Board of Directors
of the Crescenta Valley Water District
to be held on March 1, 2016 at 7:00 p.m.

Posted: February 26, 2016 at 3:00 p.m.

Any written materials distributed to the Board in connection with this agenda will be made available at the same time for public inspection at the District office located at the above address.

Call to Order and Determination of Quorum

Pledge of Allegiance

Adoption of Agenda

Public Comments

At this time the public shall have an opportunity to comment on any non-agenda item relevant to the subject matter jurisdiction of the Board. This opportunity is non-transferable and speakers are limited to one three (3) minute comment.

Foothill Municipal Water District Report

1. Report on activities at Foothill Municipal Water District.

Consent Calendar

1. Consideration and approval of the Minutes of the Adjourned Regular Meeting on February 16, 2016.

Action Calendar

The public shall have an opportunity to comment on any action item as each item is considered by the Board prior to action being taken. This opportunity is non-transferable and speakers are limited to one two (2) minute comment.

1. **Director Travel Expenses** – Consideration and motion to amend Section 4.05 of the Rules and Regulations to raise level of travel expense to $500 before Board pre-authorization is required.
2. **Credit Card Policy** - Consideration and motion to adopt a policy on credit card usage for Directors and staff.
3. **Quality Control Inspection Services for Chloramination Building at Williams Reservoir, Project E-733CS-2** – Consideration and motion to authorize the General Manager to enter into an agreement with CivilTec Engineering, Inc. for quality control inspection services related to the construction of the Chloramination building and related facilities at a cost of $35,770 with a $3,577 (10%) contingency.
4. **Presentation Regarding California Water Fix/Ecosystem Restoration** – Discussion led by Director Putnam on the MWD presentation regarding Completing the Planning Phase of California Water Fix/Ecosystem Restoration.
5. **Water and Wastewater Cost of Service Study, Project M-958** – Discussion of Water and Wastewater Cost of Service Study.

Information Items

Written Communications to District

Staff Reports

- **Secretary-Treasurer**
- **General Manager**
- **District Engineer**
- **Program Specialist**
- **Information Technology**

Attorney Report

Reports of Committees

- **Engineering Committee**
- **Finance Committee**
- **Employee Relations Committee**
- **Policy Committee**
- **Community Relations/Water Conservation Committee**
- **Emergency Planning Committee**

Director's Oral Reports

Report on issues, meetings, or activities attended by Directors.

Closed Session

- **Conference with Legal Counsel**
  - Existing litigation pursuant to paragraph (1) of subdivision (d) of Section 54956.9: Crescenta Valley Water District vs. City of Glendale, et al., Los Angeles Superior Court case no. BC595199.
- **Conference with Labor Negotiators (§54957.6)**
  - District negotiators: Thomas Love and Ron Mitchell
  - Employee organization: AFSCME
- **Conference with Labor Negotiators (§54957.6)**
  - District negotiators: Thomas Love
  - Employee organization: Management Unit

Board Members' Request for Future Agenda Items

Adjournment

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CRESCENTA VALLEY WATER DISTRICT
ADJOURNED REGULAR MEETING, BOARD OF DIRECTORS
February 16, 2016

Pursuant to the order of the Board of Directors of the Crescenta Valley Water District, made at the Regular Meeting of February 2, 2016, an Adjourned Regular Meeting was held on February 16, 2016, at 7:00 p.m. at the District office at 2700 Foothill Blvd., La Crescenta, California, with President Kerry D. Erickson presiding.

At roll call, the following Directors and staff members were present:

Directors:	**James D. Bodnar** **Michael L. Claessens** **Kerry D. Erickson** **Kenneth R. Putnam** **Judy L. Tejeda**
Attorney:	**Roland Trinh**
General Manager:	**Thomas A. Love**
Secretary-Treasurer:	**Ron L. Mitchell**
District Engineer:	**David S. Gould**
Others Present:	**Wendy Holloway, Customer Accounts Supervisor** **Raymond Dodge, Interim Superintendent** **Kathy Ross, FMWD Board of Director** **Sudir Pardiwala, Raftelis Financial Consultants**

PLEDGE OF ALLEGIANCE
President Erickson opened the meeting by asking Director Bodnar to lead the Board and staff in reciting the Pledge of Allegiance.

ADOPTION OF AGENDA
It was moved by Director Tejeda, seconded by Director Bodnar and carried by a 5-0 vote that the Agenda for the Adjourned Regular Meeting of February 16, 2016 be adopted as presented.

PUBLIC COMMENT – None

FOOTHILL MUNICIPAL WATER DISTRICT REPORT – Kathy Ross reported that the FMWD Board met today and they are updating their employee handbook, and that the conservation rate for FMWD is at 21% for January 2016, but overall it is at 29%. Also, they are changing to the Red Alert signs on February 28th for the MWD shutdown, and they are going to be hiring a new operations employee next week.

CONSENT CALENDAR

It was moved by Director Bodnar, seconded by Director Tejeda and carried by a 5-0 vote to approve the Minutes of the Regular Board Meeting held on February 2, 2016 as amended.

It was moved by Director Tejeda, seconded by Director Claessens and carried by a 5-0 vote to ratify the disbursements for January 2016 which consisted of:

Payment of demands against the Crescenta Valley Water District on or before December 31, 2015 the same having been approved by the General Manager, Thomas A. Love, and heretofore paid, be ratified and approved subject to audit, in the aggregate sum of One Million One Hundred Nine Thousand One Hundred Twenty Three Dollars and Eighty Six cents (1,109,123.86), which is composed of the individual items set forth herein.

It was moved by Director Tejeda, seconded by Director Bodnar and carried by a 5-0 vote to authorize up to four (4) Board Members to attend the 2016 ACWA Spring Conference on May 2-6, 2016 in Monterey, CA.

It was moved by Director Tejeda, seconded by Director Claessens and carried by a 5-0 vote to authorize Director Bodnar to attend the ACWA Legislative Symposium on March 9, 2016 in Sacramento.

No action was taken for the attendance at the AWWA Behind the Curtain of Drinking Water workshop on February 29, 2016 in Sacramento, CA.

ACTION CALENDAR

Water and Wastewater Cost of Service Study, Project M-958 – Mr. Gould reported that Raftelis Financial Consultants (RFC) has provided a preliminary Financial Plan model to staff for review of water and wastewater inputs. Mr. Sudir Pardiwala of RFC gave a presentation to the Board which included for discussion, Study Objectives, Key Assumptions, Drivers and Challenges, Preliminary Water Financial Plans, Preliminary Wastewater Financial Plans. Following the presentation, the Board requested that staff prepare for the next Board Meeting on March 1, 2016, the cost of service analyses for discussion and then move forward with alternate water rate structures at a Special Board Meeting to be scheduled.

Well 16 Building and Related Facilities, Project E-940 – Mr. Gould reported that the construction for the Well 16 building and related facilities is nearly complete. Cannon Corporation has been providing quality control inspection services. The completion date for the project was scheduled to be on December 16, 2015, which was the same for Cannon's original contract. The construction has gone beyond the completion date due to delays in supplying materials by the contractor, coordination with the installation of the building, new electrical service and other contractor delays. Cannon provided a proposal for quality control inspection services, along with construction staking services to verify the location of the property fence as requested by the City of Glendale and an as-built survey of the entire project at a cost of $70,180 which includes $500 for reimbursables.

Following discussion:

It was moved by Director Bodnar, seconded by Director Claessens and carried by 5-0 vote to authorize the General Manager to amend the agreement with Cannon Corporation for quality control inspection services related to the construction of the Well 16 building and related facilities at a cost of $70,180 with a 10% contingency.

INFORMATION ITEMS – None.

WRITTEN COMMUNICATIONS TO DISTRICT – None.

REPORTS OF PERSONNEL

SECRETARY-TREASURER – Mr. Mitchell provided the Summary of Cash and Investment report which contained the following items:

Investment Portfolio Summary – as of February 12, 2016:

Cash Accounts	$182,582
Great Pacific Securities	$3,271,582
Bond Debt Service Fund Acct	$278,181
Local Agency Investment Fund	$1,626,304
Transfer from MTBE Reserve	$2,000,000
Federal Farm Credit (78)	$499,795
Federal Farm Credit (81) SOLD	
Federal Farm Credit (83)	$500,365
Federal Farm Credit (86)	$998,110
Federal Farm Credit (87)	$499,990
Federal Farm Credit (96)	$983,950
Federal Farm Credit (97) SOLD	
US Treasury (99) SOLD	

MTBE Contingency Funds

Local Agency Investment Fund	$449,071
Great Pacific Securities	$7,091,253
Transfer to Water Reserve	($2,000,000)
Federal Farm Credit (M-35) SOLD	
Federal Farm Credit (M-36) SOLD	
Federal Farm Credit (M-38A) SOLD	
Federal Farm Credit (M-38B) SOLD	
US Treasury (M-40) SOLD	
US Treasury (M-42) SOLD	
US Treasury (M-43) SOLD	

Fund Balances

Water	$11,047,533.65
Wastewater	$5,551,593.11

Mr. Mitchell also provided a Recap of Investments Fiscal Year 2015-16, and reported that the District's retirement plan with PERS is now funded at 85% as of June 30, 2014.

GENERAL MANAGER – Mr. Love reported that FMWD staff and member agencies have been working to plan and coordinate for the shutdown of MWD's supply to FMWD starting February 29, 2016. The shutdown is scheduled to last ten days; however, MWD will be able to return service to the FMWD west side facilities within four days. They are coordinating media communications, and CVWD staff participated in the media briefing with the CV local media. FMWD member agencies will move to a Red Alert stage at 6:00 a.m. on February 29th, and return to Orange Alert when imported supplies are available. CVWD operations staff will increase reservoir storage prior to the shutdown. CVWD average water production for the first two weeks of February is approximately 3 MGD, compared with an average of 2.6 MGD in January.

Mr. Love also reported on the Well 16 startup and delays that have been caused by the contractor, plus additional challenges related to power supply, which have been resolved, and storm drain discharge which occurs during the initial flushing of the well that is not covered under our general permit and requires a special permit due to the volume of flow which drains directly to LACDPW storm drains.

This month there is one employee anniversary: Roy Spaulding has completed 25 years with the District, and David Rawlings has been promoted from Utility Worker I to Utility Worker II. As of January 31st the District has worked 601 days without a lost time accident.

DISTRICT ENGINEER

Water Production – For the period of February 1 through February 11, 2016, water production was 41.2 million gallons the period, which is **9.1% less** than the daily average production of the same period in 2015. This is **9.0% less** from the daily average production of the previous five years. SWRCB Conservation – 29.2% less than June 2013- February 2014 period.

Rainfall: February 2016	**0.00"**
Season-to-date:	**7.40"**

Administrative and Field Operations – Mr. Gould provided a memorandum and discussed the following:

Rainfall Update – 0.00" for February 2016. Rainfall total for 2015-16 is at 7.40".

Report on Engineering:

CIP Projects – Ocean View Chlorination Project – Building – Under construction. Pipeline & Building – Pre-construction meeting on February 18, 2016. Community meeting at 3900 Park Place on February 25, 2016. Well 16 – Pipeline & Building – Building and Facilities – Final Project Close Out. Finalizing Approval from Department of Drinking Water. Dedication Ceremony – TBA. Pickens Canyon Slope Repair – Brush clearance – complete. Erosion Control – Under construction. To be completed by February 18, 2016. Wastewater Lift Station – Emergency Electrical Generator – Bid opening date: March 9, 2016.

Water and Wastewater Cost of Service – Discussion at Board Meeting.

Nitrate Removal Treatment Facility at Well 2 Project – 50% technical memorandum by March 4, 2016.

Crescenta Valley County Park Stormwater Recharge Facility Study – No report.

ULARA – No Report.

La Canada Flintridge – Water Committee – No Report.

Water Meter Replacement Program: FY 15/16 Water Meter Replacement Program – replaced 480 meters to date.

Report on Administrative and Field Operations:

Well Status – Well production capacity – Averaging 2.0 MGD for January.

Field Maintenance and Operations update for February 1 – February 12, 2016

Reservoir Site Maintenance – No Report.

Water lateral leaks & repairs

- 2504 Orange
- 1922 Waltonia
- 4016 Sunset
- 1928 Waltonia

Fire Hydrant Leak – No Report.

Developer Job – 2700 Piedmont – 5 new meters.

Water Main Leaks – No Report.

Reservoir Maintenance – No Report.

Sewer Maintenance – 4700 – 5000 Blocks of Pennsylvania. 3100 Block of Fairesta. 4400 Block of Cloud. 3000 Block of Ashwin. 4400 – 4600 Blocks of Pennsylvania. 3000 – 3100 Blocks of Foothill. 3000 Block of Community. 4500 Block of Orin.

PROGRAM SPECIALIST –

Turf Rebates: (FINAL NUMBERS)

Pending Applications:	0
CVWD Funds Remaining:	0
Funds Submitted to MWD July 2014 to date	$739,870
MWD outstanding:	$44,500
Square Feet Removed	371,035

To date there is $44,500.00 outstanding from MWD for turf rebates. That was the amount of the final submittal which was sent to MWD the first week in December 2015. This final reimbursement amount, which is actually a credit on the water bill received from FMWD, will most likely be on the February billing which will arrive the second week of March.

INFORMATION TECHNOLOGY – No Report

ATTORNEY – No Report

REPORTS OF COMMITTEES

Engineering Committee – Director Bodnar reported that the Committee had not met; however a meeting will be scheduled as needed.

Finance Committee – Director Erickson reported that the Committee had not met; however a meeting will be scheduled as needed.

Employee Relations Committee – Director Tejeda reported that the Committee had not met; however a meeting will be scheduled as needed.

Policy Committee – Director Claessens reported that the Committee had not met; however a meeting will be scheduled as needed.

Community Relations/Water Conservation Committee – Director Putnam reported that the Committee will meet on February 23, 2016 at 8:00 a.m.

Emergency Planning Committee – Director Claessens reported that the Committee had not met; however a meeting will be scheduled as needed.

DIRECTORS ORAL REPORTS

Director Claessens – No Report

Director Putnam reported that he attended the Central Basin meeting and heard a MWD presentation on getting permits to tap into the Sacramento River through the Delta.

Director Tejeda – No Report

Director Bodnar reported that he attended the Urban Water Institute and listened to a discussion regarding recycled water.

Director Erickson reported that he attended the Descanso Gardens event on February 6, 2016, and listened to the discussion regarding El Nino. He also said that he will be attending the MWD Pumping Station tour on February 19, 2016.

CLOSED SESSION – No Reportable Action

ADJOURNMENT

There being no other business to come before the Board at 9:40 p.m., it was moved by Director Bodnar, seconded by Director Claessens and carried that the meeting be adjourned to March 1, 2016 at 7:00 p.m.

APPROVED

Kerry D. Erickson	Ron L. Mitchell
President	Secretary-Treasurer

CRESCENTA VALLEY WATER DISTRICT

BOARD OF DIRECTORS - STAFF REPORT

Action Item No. 1
March 1, 2016

To: Honorable President and Members of the Board of Directors

From: Ron L. Mitchell – Secretary-Treasurer

Subject: **Director Travel Expenses**

ACTION ITEM:

Director Travel Expenses – Consideration and motion to amend Section 4.05 of the District's Rules & Regulations to raise the level of travel expense to $500 before Board pre-authorization is required.

DISCUSSION:

At the February 16, 2016 Board meeting it was recommended by Director Bodnar that Section 4.05 of the District's Rules & Regulations concerning the limit for travel by directors to events before full Board authorization is required be increased from $300 to $500.

It was also recommended that a clause be added to existing policy that would not allow for reimbursement of expenses if the Director or member of staff is attending a conference or seminar representing both the District and another agency that they are affiliated with and the other agency has already reimbursed them for the same expense.

RECOMMENDATION:

It is recommended that the Board amend Section 4.05 of the District's Rules & Regulations to increase the level of travel expense to $500 before pre-authorization by the Board is required and to add new language concerning reimbursement for expenses in the case where another agency may also reimburse a director or member of staff for the same event.

Prepared by:

____

Ron L. Mitchell
Secretary-Treasurer

Submitted by:

____

Thomas A. Love
General Manager

Attachments:

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4.05: DIRECTORS EXPENSES

Each member of the Board is encouraged to attend conferences, meetings, seminars, workshops, etc. which, in the judgment of the Board, benefit CVWD and strengthen the director's ability to understand relevant issues and to better serve CVWD customers. Expenses incurred by Board members related to such activities are reimbursable, when authorized in advance by the Board. Such advanced authorization is not necessary when expenses are $500 or less. The following rules apply:

A. Each director will be allowed to attend two (2) conferences and one seminar, and/or workshop per fiscal year with prior Board approval. All additional requests for attendance at conferences, meetings, seminars, and/or workshops in a fiscal year will be determined on a case-by-case basis and will require justification for the Board's consideration.

B. All expenses shall be reasonable and necessary and directors are encouraged to exercise restraint in all expenditures.

C. The most economical mode and class of transportation consistent with scheduling requirements shall be used. Reimbursement for use of personal autos shall be at the current rate established by the Internal Revenue Service for mileage reimbursement. Reimbursement for travel by personal automobile, if substituted for airline travel, shall not exceed airline fare plus reasonable "to and from" airport transportation.

C. Expenditures for meals (excluding alcoholic beverages) and lodging shall be moderate and reasonable. Meals purchased outside of a convention or seminar package shall be reimbursed at a rate not to exceed $75.00 per day. Lodging shall be reimbursed at a rate not to exceed the group rate available to attendees of the conference or seminar, or if no such group rate is available, not to exceed $250 per night. Lodging expenses will not be allowed for attendance at conferences, meetings, seminars, and/or workshops held within a 50 mile radius of the District unless prior approval is granted by the Board. Incidental expenses (tips, telephone and fax, parking, and similar expenses) shall not exceed $50 per day.

D. Expenses for guests and spouses of District representatives are not reimbursable.

E. Upon incurring said "out-of-pocket" expenses, Directors may submit a request for reimbursement on prescribed District forms, accompanied by evidence of payment of such expenses and receipts for all amounts if possible. The Secretary-Treasurer shall reimburse the Directors for such expenses in a timely manner.

F. If a Director or member of staff attends a conference or seminar representing both the District and another agency that they are affiliated with, then the District will not reimburse for expenses that have been reimbursed by the other agency or organization.

CRESCENTA VALLEY WATER DISTRICT

BOARD OF DIRECTORS - STAFF REPORT

Action Item No. 2
March 1, 2016

To: Honorable President and Members of the Board of Directors

From: Ron L. Mitchell – Secretary-Treasurer

Subject: **Credit Card Policy**

ACTION ITEM:

Credit Card Policy – Consideration and motion to adopt a policy on credit card usage for Directors and staff.

DISCUSSION:

While conducting the Fiscal Year 2013-14 audit, it was noted that some receipts for credit card transactions were missing. Also in a couple of instances, the District credit card was inadvertently used for personal charges. These transactions were reimbursed immediately. The auditors noted in the Management Letter that the District should have a formal policy on how District credit cards should be used and transactions accounted for to prevent future problems.

Attached is the draft Credit Card policy for the Board's consideration. This policy addresses who holds District credit cards, how they are to be used, approval of transactions, receipt requirements, and who is responsible for review of credit card transactions.

RECOMMENDATION:

It is staff's recommendation to adopt the draft Credit Card Policy as part of the District's Rules & Regulations Manual with any language recommendations provided by the Board.

Prepared by:	Submitted by:
___________________	___________________
Ron L. Mitchell Secretary-Treasurer	Thomas A. Love General Manager

Attachments:

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USE OF DISTRICT CREDIT CARDS

Each member of the Board and specific members of management, who either travel on District business or have the need to purchase supplies or services, have been issued a District credit card. The Secretary-Treasurer will maintain a list of credit cards issued and safely keep control of the Board member credit cards to be issued when they travel on approved business or make conference or travel arrangements. No credit card shall be issued to an employee without the approval of the General Manager. The following rules apply:

A. All credit card purchases shall be paid in a timely manner to avoid late fees and finance charges.

B. All credit card purchases shall be reasonable and necessary to the furtherance of District business. No personal expense shall be charged on a District credit card. If there is an overlap on a transaction between personal and District business, or the credit card is used in error for a personal transaction, the Director or employee will immediately reimburse the District for the expenditure.

C. Use of the District credit card is generally restricted to travel and related costs, conference fees, nominal supplies, and those purchases for which issuing a Purchase Order is impractical, not acceptable by the vendor or for those purchases which constitute an emergency. All other purchases should be made through the normal purchasing process.

D. Excluding travel and related costs, and conference fees, any purchase greater than $500 must be approved in advance by the General Manager or his designee.

E. The General Manager or his designee shall review all credit card transactions.

F. Receipts are required to support all credit card transactions and must be provided to the Accounting Department on a timely basis.

CRESCENTA VALLEY WATER DISTRICT

BOARD OF DIRECTORS - STAFF REPORT

Action Item No. 3
March 1, 2016

To: Honorable President and Members of the Board of Directors

From: David S. Gould. P.E. – District Engineer

Subject: **Award of Contract for Quality Control Inspection Services for Chloramination Building at Williams Reservoir, Project E-733CS-2**

ACTION ITEM:

Quality Control Inspection Services for Chloramination Building at Williams Reservoir, Project E-733CS-2 – Consideration and motion to authorize the General Manager to enter into an agreement with Civiltec Engineering, Inc. for quality control inspection services related to the construction of the chloramination building and related facilities at a cost of $35,770 and establish a contingency amount of $3,600 (10% of contract) to cover the cost of unforeseen or additional work.

DISCUSSION:

General Consolidated Constructors, Inc. (GCC) began construction of the chloramination building at Williams Reservoir and related facilities on February 1, 2016 and this portion of the project should be completed by March 25, 2016. Miron Electric Construction will begin the electrical work on March 14, 2016 and should be completed by April 8, 2016.

CVWD's Construction Inspector, Cory Whitman, has been providing construction management and inspection services for this project. However, the Engineering Department has other Capital Improvement Projects planned which will be under construction during the installation of the chloramination building and electrical system.

1) Fence/Wall at Ordunio Reservoir
2) Pipeline replacements
   a. 3900 block of Park Place between Waltonia Ave and Verdugo Blvd
   b. 3700 Block of Glenwood Ave between Honolulu Ave and Oakendale Ave
   c. 2600 Block of Harmony from the intersection of Harmony Place and Rosemont to the westerly end of the cul-de-sac
   d. 2800 Block of Prospect Ave and 4400 Block of Glenwood Ave

To meet the needs of the District in order to complete this project and the other capital projects for FY 15/16, staff requested proposals from Cannon and Civiltec to provide quality control inspection services for the remaining time for the construction of the chloramination building and electrical system. Civiltec was the design engineering firm for the project, and they provided the lowest costs for inspection services after correcting for slight differences in the proposals.

Civiltec's proposal for quality control inspection services, which included full-time inspection, daily and weekly reports, responses to request for information, verification of equipment delivery, coordination with CVWD personnel, coordination with City of La Canada Flintridge, and project close-out. Terry Kerger will be the project manager, and Bryan P. Hellein will be the construction observer.

RECOMMENDATION:

It is staff's recommendation to authorize the General Manger to enter into an agreement with Civiltec Engineering for quality control inspection services at a cost of $35,770 and establish a contingency amount of $3,600 (10% of contract) to cover the cost of unforeseen or additional work to complete the project. This will relieve staff to move forward on the remaining capital improvement projects for FY 15/16.

ENVIRONMENTAL REVIEW:

N/A

FUNDING AVAILABILITY:

There are sufficient funds available in the following accounts for the project:

Account Description	Amount
FY 14/15 Water CIP– Water Supply – Import Water	$292,535
Proposition 50 Grant Funding	$292,535
Total Funds Available for Project	**$585,070**
Actual Construction Cost for E-733CS – 1	<$256,650>
Actual Construction Cost for E-733CS – 2	<$168,000>
Actual Construction Cost for E-733CS – 3	<$39,600>
Actual Cost Estimate for E-733CS – 4	<$56,000>
Amount Remaining in Project	**$64,820**
Chloramination Building Inspection	<$35,770>
Additional costs such as inspection labor costs & contingency	<$3,600>
Amount Remaining in Water CIP – Water Supply – Import Water	**$25,450**

Prepared by:

Brook Yared, P.E.
Associate Engineer

Submitted by:

David S. Gould, P.E.
District Engineer

Attachments:

Civiltec Proposal dated 2/16/16

g:\management\board meeting staff reports\2016\3-01-16 board memo - e-733cs-2 chloramination building inspection ac.docx

Celebrating 30 Years 1986 - 2016
CIVILTEC engineering inc.
Civil, Water, Wastewater, Drainage and Transportation Engineering
Construction Management ● Surveying
California ● Arizona

February 16, 2016
Revision 1

Crescenta Valley Water District
2700 Foothill Boulevard
La Crescenta, Ca. 91214

ATTN: Brook Yared

RE: Proposal for Construction Services Chloramination Facility at Williams Reservoir, Project E-733CS

Civiltec Proposal No. PM16015.00

Mr. Yared:

Civiltec Engineering, Inc. (Civiltec) appreciates the opportunity to submit this proposal to provide Construction administration services for the Construction of the Chloramination Facility at the Williams Reservoir, Project 733CS. We understand this project will provide chloramination and chlorination for the waters exchanged between Foothill Municipal Water District and Crescenta Valley Water District. The project will consist of Construction of a pre-fabricated building, installation of chemical storage tanks and chemical feed equipment, installation of electrical equipment, installation of SCADA control equipment, and facility start up, adjustment and testing. Civiltec will perform all services directly from our Monrovia office.

SCOPE OF SERVICES

Based on the CVWD Request for Proposals, our knowledge of the facility design, our understanding of the project goals, and our professional experience, we have identified the following scope of services. This scope of service is based on a total field observation of 28 full time 8 hour days.

PHASE 1: CONSTRUCTION SERVICES

Task A. Observe the construction process and provide written progress reports on a weekly basis. Full time 8 hours per day 23 days.

Task B. Provide on-site field observation of the construction process. Monitor the quality of the construction process. Require the contractor to provide the quality of work required by the project plans, specifications, and contract documents.

Task C. Review the construction schedule and provide comments. Monitor the schedule to confirm that tasks are completed on time. Note and provide comments if schedule tasks are not completed on time, provide suggestions for improving performance to maintain schedule and project completion date.

Task D. Review monthly progress pay requests, verify quantities of work and percentages of work are accurate. Prepare payment request approval memo.

Task E. Review the contractor's compliance and conformance with contract documents. Provide guidance and recommendations to the District.

Task F. Provide coordination of construction activities with District water system operations.

Task G. Provide assistance as required to observe and coordinate start up and testing activities. Coordinate with District operations to provide source water flows for all operating conditions and flow rates. Assist in determining initial and final feed rates and operational flow conditions. Test all electrical and mechanical equipment. Two full time 8 hour days.

PHASE 2: PROJECT CLOSE OUT

Task A. Verify and provide documentation that all system test have been completed, system adjustments have been completed and facility operates satisfactorily in all flow modes. One 8 hour day

Task B. Prepare final punch list of deficiencies relative to the project construction, operations, and performance. One 8 hour day.

Task C. Observe punch list repair activities and verify that all construction, operations, and performance deficiencies are corrected. Provide final punch list verification and sign off. One 8 hour day

Task D. Obtain as constructed plan revision red line mark ups , operations manuals, equipment operations guides, and construction materials cut sheets. Provide Documents for district files.

Task E. Assemble all reports, manuals, plans, memorandums, punch lists, test reports, and operating instructions. Provide one copy for districts files.

SCHEDULE

Civiltec is available to commence this project immediately. The actual schedules of work and project completion time will depend on the contractors estimated schedule for the completion of each work task. Civiltec has estimated that the project including testing and start up activities will be completed in 2-3 months. The Scope of Work outlined herein is based on CVWD estimate observation start date of March 2, 2016, and completion date of April 8, 2016.

FEE SCHEDULE

Our fee for the above-described services will be billed on a time and materials, not to exceed basis as follows. Our estimated fee is based on the standard Civiltec Hourly rate schedule Exhibit A. A breakdown of our hours and fees is included as Exhibit C.

Phase 1: Construction Services	$29,491.00
Phase 2: Project Close Out	$6,280.00
Total	**$35,770.00**

Any work not authorized within 3 months of the date of this proposal will be subject to renegotiations based on current rates.

REIMBURSIBLES AND EXPENSES

Excluded from the above fees are reimbursable expenses incurred on the project's behalf, including materials testing, geotechnical testing, and any water quality laboratory testing Reimbursable expenses will be billed at cost plus 15%. Civiltec will bill monthly for all work performed and expenses incurred on the project's behalf.

STANDARD TERMS AND CONDITIONS

Unless otherwise indicated, Civiltec will provide services as described in accordance with Crescenta Valley Water District's standard consultant's terms and conditions identified in the District's RFP.

CONSULTANTS REPRESENTATIVE

Civiltec will provide the services of Terry Kerger as project manager to coordinate the field activities, coordinate the startup and testing of the facility and coordinate assembly of the project final documentation and records. Brian Hellein will, provide field observation and prepare observation reports as required. Resumes are attached.

Please contact the undersigned directly with any comments or questions.

Sincerely,
CIVILTEC ENGINEERING, INC.

Terry Kerger
Principal Engineer

Attachments: Exhibit A – Rate Schedule
Exhibit B – Breakdown of Hours and Fees
Resumes

CRESCENTA VALLEY WATER DISTRICT
CHLORAMINATION FACILITY CONSTRUCTION MANAGEMENT

CRESCENTA VALLEY WATER DISTRICT												
CHLORINATION FACILITY E-733CS												
ENGINEERING FEE												
DATE:	**10-Feb-16**											
	HOURS BY	HOURS BY	HOURS BY	HOURS BY	HOURS BY	HOURS BY	HOURS BY	HOURS BY	HOURS BY	OBSERVER		TOTAL
	PRIN. ENG	PM	PE	STAFF ENG	SDr	DD	PT	D	AA		EXPENSES	BUDGET
RATE	$ 215.00	$ 180.00	$ 165.00	$ 145.00	$ 169.00	$ 110.00	$ 105.00	$ 125.00	$ 75.00	$ 105.00		
CONSTRUCTION SERVICES												
DESCRIPTION												
FIELD OBSERVATION AND REPORTS 8 HR PER DAY	8								8	184		$ 21,640.00
QUALITY MONITORING	4											$ 860.00
MONITOR SCHEDULE	4											$ 860.00
REVIEW PROGRESS PAY REQUESTS	4								2			$ 1,010.00
CONTRACT COMPLIANMCE	4											$ 860.00
COORDINATE W/ DISTRICT	4											$ 860.00
START UP COORDINATION AND TESTING 8 HR PER DAY	8									16		$ 3,400.00
	36	0	0	0	0	0	0	0	10	200	0	246
BUDGET	$ 7,740.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 750.00	$ 21,000.00	$ -	$ 29,490.00
SUBTOTAL CONSTRUCTION SERVICES						**$**	**29,490.00**					
PROJECT CLOSE OUT												
DESCRIPTION												
VERIFY COMPLETION	2									8		$ 1,270.00
PUNCH LIST	1									8		$ 1,055.00
VERIFY PUN CH LIST	1									8		$ 1,055.00
FINAL DOCUMENTS	8								8			$ 2,320.00
DELIVER FINAL DOCUMENTS	2								2			$ 580.00
HOURS	14	0	0	0	0	0	0	0	10	24	0	24
BUDGET	$ 3,010.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 750.00	$ 2,520.00	$ -	$ 6,280.00
SUBTOTAL PROJECT CLOSE OUT						**$**	**6,280.00**					
					TOTAL FEE		**$ 35,770.00**					

CRESCENTA VALLEY WATER DISTRICT												
CHLORINATION FACILITY E-733CS												
ENGINEERING FEE												
DATE:	**10-Feb-16**											
	HOURS BY	HOURS BY	HOURS BY	HOURS BY	HOURS BY	HOURS BY	HOURS BY	HOURS BY	HOURS BY	OBSERVER		TOTAL
	PRIN. ENG	PM	PE	STAFF ENG	SDr	DD	PT	D	AA		EXPENSES	BUDGET
RATE	$ 215.00	$ 180.00	$ 165.00	$ 145.00	$ 169.00	$ 110.00	$ 105.00	$ 125.00	$ 75.00	$ 105.00		

CIVILTEC engineering inc.

Civil, Water, Wastewater, Drainage and Transportation Engineering
Construction Management ● Surveying
California ● Arizona

RATE SCHEDULE

EFFECTIVE UNTIL DECEMBER 31, 2016

Principal Engineer	$215.00
Principal Engineer - Expert Witness Testimony	$340.00
Senior Engineer	$200.00
Project Manager	$180.00
Project Engineer	$165.00
Senior Designer	$160.00
Staff Engineer	$145.00
Associate Planner	$130.00
Designer	$125.00
Designer/Drafter	$110.00
Planning Technician	$105.00
Resident Engineer/Observer	$105.00
CAD Technician	$95.00
Senior Administrative Assistant	$80.00
Administrative Assistant/Clerical	$75.00
Two Man Survey Party	$230.00
Survey Manager	$155.00
Staff Land Surveyor	$125.00
Survey Technician	$105.00
Subcontracted Services	Cost plus 15%
Mileage	$0.575/mile

NOTE: All rates are effective until December 31, 2016. Any increases in rates after that date will be limited to 5% maximum.

W:\ADMINISTRATION\Rates\SCHEDULE.16.doc

CIVILTEC engineering inc.

Bryan P. Hellein
Construction Observer

EDUCATION

Citrus College -
1980 to 1982
Mt. San Antonio College -
1990 to 1991
General Education courses -
University of Southern CA
Foundation for Cross-Connection Control and Hydraulic Research
1992 to 1993

CERTIFICATIONS

State of California D-3 Operator Certification

State of California T-2 Operator Certification

Red Cross Firs Aid Certification
(First Responder)

Los Angeles/Riverside County Certified Backflow Tester

SUMMARY

Since 1977, Mr. Hellein worked with The City of El Monte as a Water Operator from duties of Water System Supervisor to the Public Works Maintenance Superintendent. In August of 2011 Mr. Hellein began working with ***CIVILTEC engineering, inc***. as a Construction Observer. His primary responsibilities include construction management, and observation of pipeline, well and pump stations, and reservoirs,

PROJECT EXPERIENCE

Pump Station and Well Design and Engineering

Mr. Hellein served as Construction Observer for the City of Covina on the following projects:
- Charter Oaks 3MG Tank No.4 New Concrete Reservoir.
- Charter Oaks 3 MG Tank No.1 Seismic Upgrage and New Concrete Roof.
- Holt Avenue Booster Station- 1,000 gpm Boosters with New Cconcrete Building, Electrical Gear and Communications.

Mr. Hellein served as Construction Observer for the City of Garden Grove West Garden Grove Transmission Main 26,000 LF of 16-inch Water Main and 3,000 LFof 15-inch -24-inch VCP Sewer. Also for the Belgrave Sewer Lift Station – Two 50 HP Submersible Pumping Systems, Wet Well, Site Improvements Emergency Generator, Controls and Electrical Gear.

Mr. Hellein served as Construction Observer for Covina Irrigating Company Covina Canal Replacement Project 3,200 LF of 42-inch Transmission Pipeline.

Mr. Hellein served as Construction Observer for Valencia Heights Water Company Cathodic Protection System. Protection for approximately 4,500 LF of steel pipeline in the City of Malibu.

Mr. Hellein served as Construction Observer for the City of Monrovia MTA Station Square Project.

Mr. Hellein served as Construction Observer for the City of El Monte Operable Unit. Installation of GAC treatment, site improvements, chlorine disinfection, buildings, 30,000 LF of transmission pipelines, 3 production wells, electrical, controls and integration.

TERRY KERGER, PE

PROJECT ENGINEER

PROFESSIONAL REGISTRATION

Professional Engineer
California, No. 34896

EDUCATION

B.S. Civil Engineering, 1985
California State University
Los Angeles
A.A. Architecture
El Camino College

PROFESSIONAL AFFILIATIONS

Southern California Water
Utilities Association
American Water Works
Association
Past Chairperson ASCE
Pipeline Technical Group
(Los Angeles Chapter)

EXPERTISE

☒Civil Engineering
☒Water Engineering
☐Drainage Engineering
☒Transportation Engineering
☒Wastewater Engineering
☐Survey
☒Construction Management

SUMMARY

Mr. Kerger has more than 45 years' experience in the project management, design and construction of Civil Engineering projects including water supply transmission mains, flow control facilities, pump stations, reservoirs, wells, treatment plants, sewerage, water containment, flood control facilities, bikeway, roadway design, structure design, grading plans, Water Master Plans, and agency plan check programs. He has designed and managed projects ranging from small water main improvements to a $5 million groundwater production and water treatment facility.

For more than 40 years, Mr. Kerger has been Project Manager and Design Engineer for all water projects for Rowland Water District. The more than 400 projects he has completed include water distribution, system design, transmission main design, 54-inch pipeline relocation, steel and concrete reservoir designs, booster pump station design, MWD flow control facility design, pressure reducing and flow control facilities, telemetry system design, master planning, hydraulic modeling, financial planning, construction administration, and field inspection services.

As the City of El Monte's Project Manager for water system improvements projects, his responsibilities included pipeline improvements, well design, investigations of well head water treatment and well water blending, hydraulic modeling, capital improvement planning, telemetry system design, feasibility studies for purchase of adjacent mutual water systems, including system appraisal, financial options, and identifying system upgrades.

Other project contributions by Mr. Kerger include mapping and flow computations for master plans, hydraulic calculations for transmission lines, and metering facilities. He has been responsible for the design of more than 50 miles of water transmission mains of various sizes from 6 to 30-inches in diameter.

PROJECT EXPERIENCE

Senior Project Manager – City of Ontario Well Nos. 33, 34, 39, 40, and 44

Mr. Kerger designed and performed construction administration for two well installations [Well No. 33 & No. 34] including equipping each drill with a 500 HP motor and drilling each well to a depth of 800-feet. Mr. Kerger also completed the design and construction administration for the drilling and equipping of Well No. 39. A 350 HP motor was used to drive the 1,000-foot deep 3,000 GPM well. 150 lb chlorine cylinders provided disinfection. The concrete block building used to house the well and chlorination station included a removable roof over the well. For aesthetic concerns, the building included a courtyard for the well discharge piping. Additionally, Mr.

PROJECT EXPERIENCE (CONTINUED)

Kerger was the Senior Project Manager for the City of Ontario's Wells No. 40 & 44 Projects. He was responsible for investigating potential sites, generating permit applications, preparing plan, specifications, and cost estimates for the drilling and equipping of two 1,250-foot domestic water wells with capacities of 2,000-3,000 GPM. Disinfection, construction administration, and construction of masonry block enclosures with open-roof courtyards were also included in the scope of this project.

Project Designer – City of Cerritos C-5 Water Well
Mr. Kerger was the Project Designer for this project, where the design included equipping a 3,000 GPM municipal water well with dual-drive chloramination and a chlorine containment system. Design also included a well pump building with architectural treatment to blend into an urban neighborhood setting.

Project Designer – City of El Monte Well No. 13
Mr. Kerger was the Project Designer for this project, where he provided preliminary investigation of the well site, designed the plans, and prepared specifications and cost estimates for the drilling and equipping. Well depth was approximately 700-feet and, with equipping, now pumps approximately 2,500 GPM. Mr. Kerger provided inspection services during both site grading and well drilling.

Principal Engineer – Rowland Water District/Cal Domestic Water District Flow Control Facility
Mr. Kerger managed the design of this pressure reducing flow control facility. This facility was designed to control water source flows from Cal Domestic Water District supply to two Rowland Water District pressure zones. Flow control facility design capacity of up to 10 CFS of supply to either of the two Rowland Water District pressure zones. Design included integration of SCADA controls and flow monitoring to operate the facility automatically-remotely when California Domestic Water deliveries are available.

Project Designer – Rowland Water District Pressure Flow Control Facility
Mr. Kerger designed upgrades and improvements to convert this manual valve facility to a fully automated SCADA controlled facility to Control Metropolitan Water District Source water supply to Rowland Water District. Facility operating range is from 5 CFS to 25 CFS.

Principal Engineer – San Gabriel Valley Metropolitan Water District Pressure Reducing Flow Control Facility
Mr. Kerger was the Principal Engineer for the review and analysis of existing 50 CFS Pressure reducing flow control facility. Design review addressed current operational issues to achieve design flow rate, eliminate valve cavitation issues, and improve wet well discharge attenuation of high flow velocities. Review included recommendations for installation of flow metering and isolation valves. This facility was designed to implement hydrogenation in the future. Designed well installation, including drilling and equipping.

Project Designer – San Diego County Water Authority Transmission Main Turnouts
Mr. Kerger was the responsible engineer for the design of 5 water turnout facilities to serve member agencies. Prepared flow analysis calculations based on delivery rates and delivery pressures. Prepared calculations to evaluate potential valve cavitation range and determined safe flow delivery rates.

Project Engineer – San Gabriel County Water District Pipeline Project
Mr. Kerger was responsible for the replacement of deteriorated distribution pipelines and extension of transmission pipelines to improve transmission of well production to meet District's service demands.

PROJECT EXPERIENCE (CONTINUED)

Project Manager – South Gate Pipeline Replacement Project

Mr. Kerger was the Project Manager for the installation of 39,000-feet of transmission pipeline replacement. Project included preparing 45 base map plan sheets using the city's GIS database in Microstation format, and involved utility record research, field verification of utility records, pipeline and appurtenance design, project specifications, cost estimates, bidding assistance, construction administration services, and record drawings. Microstation format and the city's GIS data allowed completion of the design phase in six weeks.

Principal Designer – Industry Hills Civic/Recreation/Conservation Area

Mr. Kerger was the Principal Designer to this award-winning project. Services included two 2.5 MG water storage reservoirs, two 6,500 gpm pumping stations, and six miles of 36-inch reclaimed water transmission main. He was responsible for the design of the telemetry and control system including central control and remote sites for three reservoirs and three pump stations.

Principal Engineer – California Domestic Water Company Whittier Reservoir Project

Mr. Kerger was the Principal Engineer for the design of the Whittier Reservoir, Pump Station and Line "C" pressure reducing flow control facility. Pressure reducing facility provides pressure and flow control to lower pressure zone customers. Design included selection of SCADA controlled valves, customer pipe connections, and precast vault enclosure.

Project Engineer – Metropolitan Water District Coldwater Reservoir Project

Mr. Kerger was responsible for the reconstruction of this 8.0 MG reservoir. This project consisted of a feasibility investigation to provide interim water supply to the City's downtown business district during demolition and reconstruction of a structurally deficient buried concrete reservoir. Included was evaluating existing zone storage and flow control of Metropolitan Water District's water supply. Interim service solution recommended construction of a supplemental reservoir for additional storage and modification of zone transfer facilities for efficient emergency operation.

Principal Designer – Rowland Water District Reservoir Nos. 1 & 11

Mr. Kerger began RWD's Reservoir No. 1 Project by investigating a failure of reinforcing wire strand wrap of a 1965 vintage reinforced concrete circular 3.0 MG reservoir. Plans, specifications, and construction management for installing a post-tensioned reinforcing bar system with gunite concrete corrosion protection was also included. The reservoir was repaired and returned to service in 60 days. For the Reservoir No. 11 Project, Mr. Kerger designed a 5.0 MG wire-wrapped, partially-buried concrete reservoir including site grading, landscaping, an irrigation system, telemetry, and site improvements (including paving and decorative wrought iron fencing). Full construction administration services included surveying, inspection, and testing.

Principal Engineer – San Simeon State Park Hearst Castle Reservoir

Mr. Kerger was responsible for the design of a 1.5 MG buried concrete reservoir. This project included a design report identifying storage requirements, pump station requirements, surface water treatment system, chlorination system, and water system O&M recommendations, as well as plans and specifications for the reservoir, a 500 GPM variable reverse osmosis water treatment and pumping system, and assistance with the bid process along with construction management services. On-site, part-time inspection services was also included.

PROJECT EXPERIENCE (CONTINUED)

Project Manager – Rowland Water District Zones III and IV Booster Stations
Mr. Kerger was the Project Manager for the design of these two facilities. The former was a remodel of an existing station (add two at 600 GPM), and the latter involved a new facility inside a building (three at 500 GPM).

Project Engineer – United Water Conservation District El Rio Booster Station
Mr. Kerger was the Project Engineer for a 23,700 GPM booster station capable of pumping as low as 0.2 cfs with bypass facilities and variable speed drives on all units. This project also included the construction of a separate electrical building.

CRESCENTA VALLEY WATER DISTRICT

BOARD OF DIRECTORS - STAFF REPORT

Action Item No. 3
March 1, 2016

To: Honorable President and Members of the Board of Directors

From: Ron L. Mitchell – Secretary-Treasurer

Subject: **Presentation Regarding California Water Fix/Ecosystem Restoration**

ACTION ITEM:

Presentation Regarding California Water Fix/Ecosystem Restoration – Discussion on the MWD presentation entitled "Completing the Planning Phase of California Water Fix/Ecosystem Restoration".

DISCUSSION:

As part of his Directors Oral Report at the February 16, 2016 meeting, Director Putnam said that he had attended a meeting at Central Basin Municipal Water District where Mr. Stephen Arakawa of Metropolitan Water District provided a presentation entitled "Completing the Planning Phase of California Water Fix/Ecosystem Restoration".

Director Putnam has asked that the presentation be provided to everyone and that he would like to lead a discussion on that presentation at the meeting scheduled for March 1, 2016.

RECOMMENDATION:

No recommendation.

Prepared by:

____
Ron L. Mitchell
Secretary-Treasurer

Submitted by:

____
Thomas A. Love
General Manager

Attachments:

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Completing the Planning Phase of California Water Fix/Eco Restore

Stephen N. Arakawa
Manager, Bay-Delta Initiatives
The Metropolitan Water District of Southern California

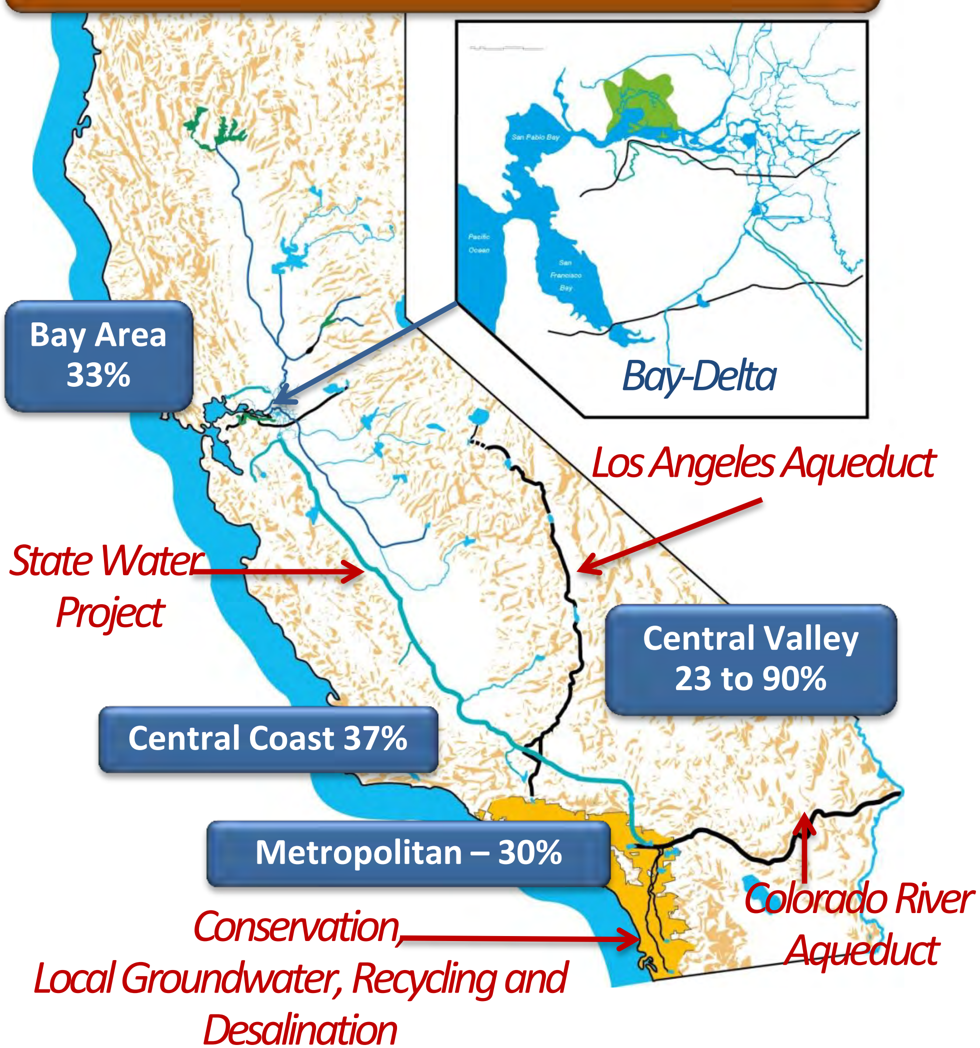
Central Basin MWD Caucus Meeting
February 3, 2016

California Water Fix: Securing Water Supplies for California

- Enhances supply reliability and Delta ecosystem
- Supports Southern California's local resources
- Modernizes the State Water Project and addresses flaws since its creation
- Protects billions of dollars of past investments made by Southern California

Bay-Delta: Critical Component of Metropolitan's Diverse Water Supplies

Some regions 100% dependent on Bay-Delta supplies



- Southern California Water Portfolio
  - 25% Colorado River
  - 30% State Water Project (through the Delta)
  - 45% Local Supplies
    - Los Angeles Aqueduct
    - Conservation
    - Groundwater
    - Recycling
    - Desalination

Protecting 50 Years of Metropolitan Regional Investments

- State Water Project
- Diamond Valley Lake
- Inland Feeder
- Water Treatment Processes
- Local Supply Projects

Metropolitan's Diverse Portfolio: Supplies and Demand Management

Recycling

Groundwater Recharge

Desalination

Stormwater Management

Colorado River

State Water Project

Conservation

State Water Project:
Supports Development of Local Supplies

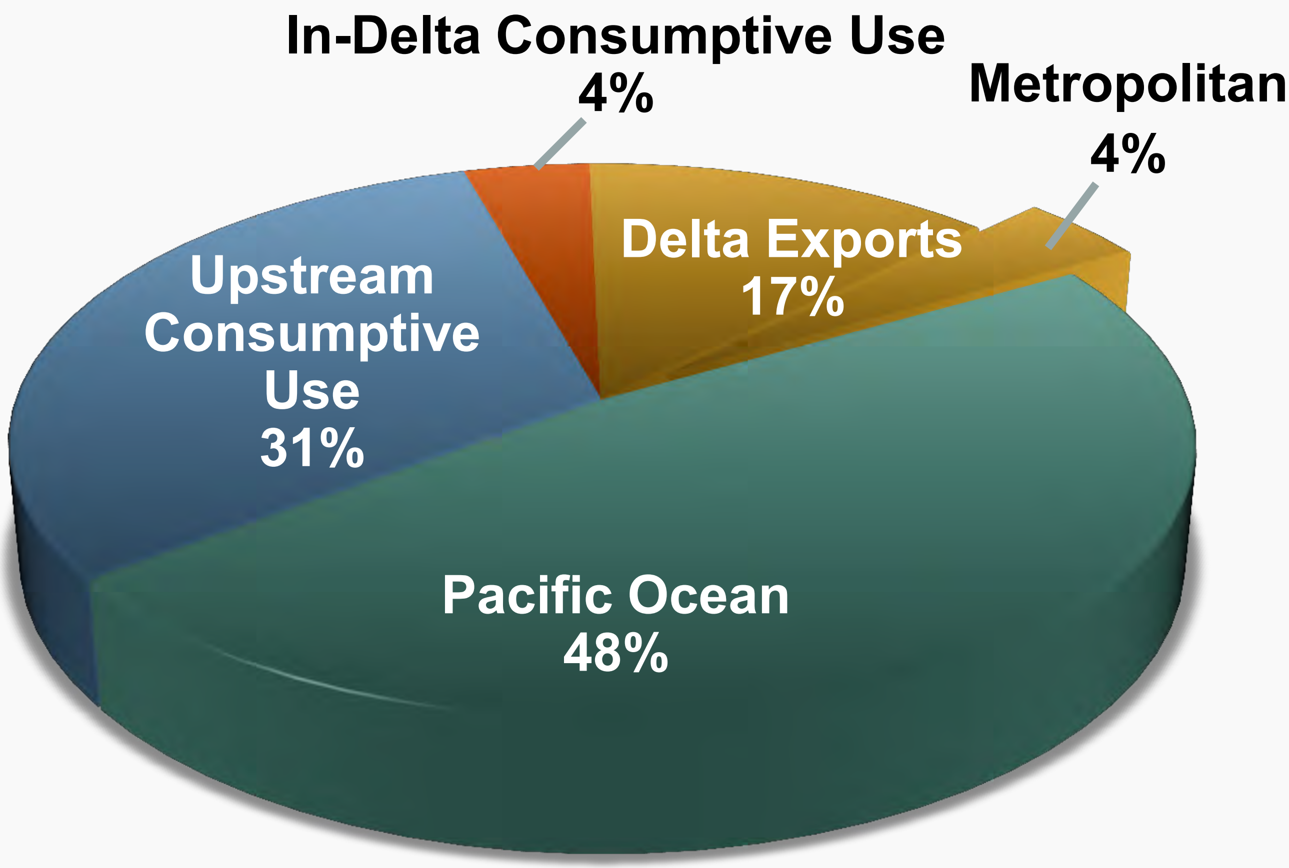
Southern California's local supplies depend on water quality benefits of State Project water:

- Blending impaired supplies
- Maximizing recycled water opportunities
- Groundwater replenishment and recovery

Delta: Hub of California's Water Supply

- Supplies 25 million Californians with State Project water
- Provides irrigation for much of the produce grown domestically
- 57 Islands and Tracts
- 700 miles of sloughs and channels
- 1,100 miles of levees

Water Flowing from the Delta Watershed



Source: Delta Vision Report (2007)
Time Period: 1990-2005
Estimated total annual runoff 32.85 maaf

Chronic Impacts and Long-Term Risks
State Water Project Supplies

- Chronic Impacts
  - Fisheries conflict
  - Pumping restrictions
- Long-Term Risks
  - Seismic
  - Sea-level rise
  - Subsidence

Modernizing the State Water Project

- Improve and modernize state water delivery system
- Build consensus and take action on longstanding issues
- Meet environment and economic needs
- Adapt to current and future climate change impacts

State's New Proposal Announced April 2015

CALIFORNIA WATER FIX
RELIABLE. CLEAN. WATER.

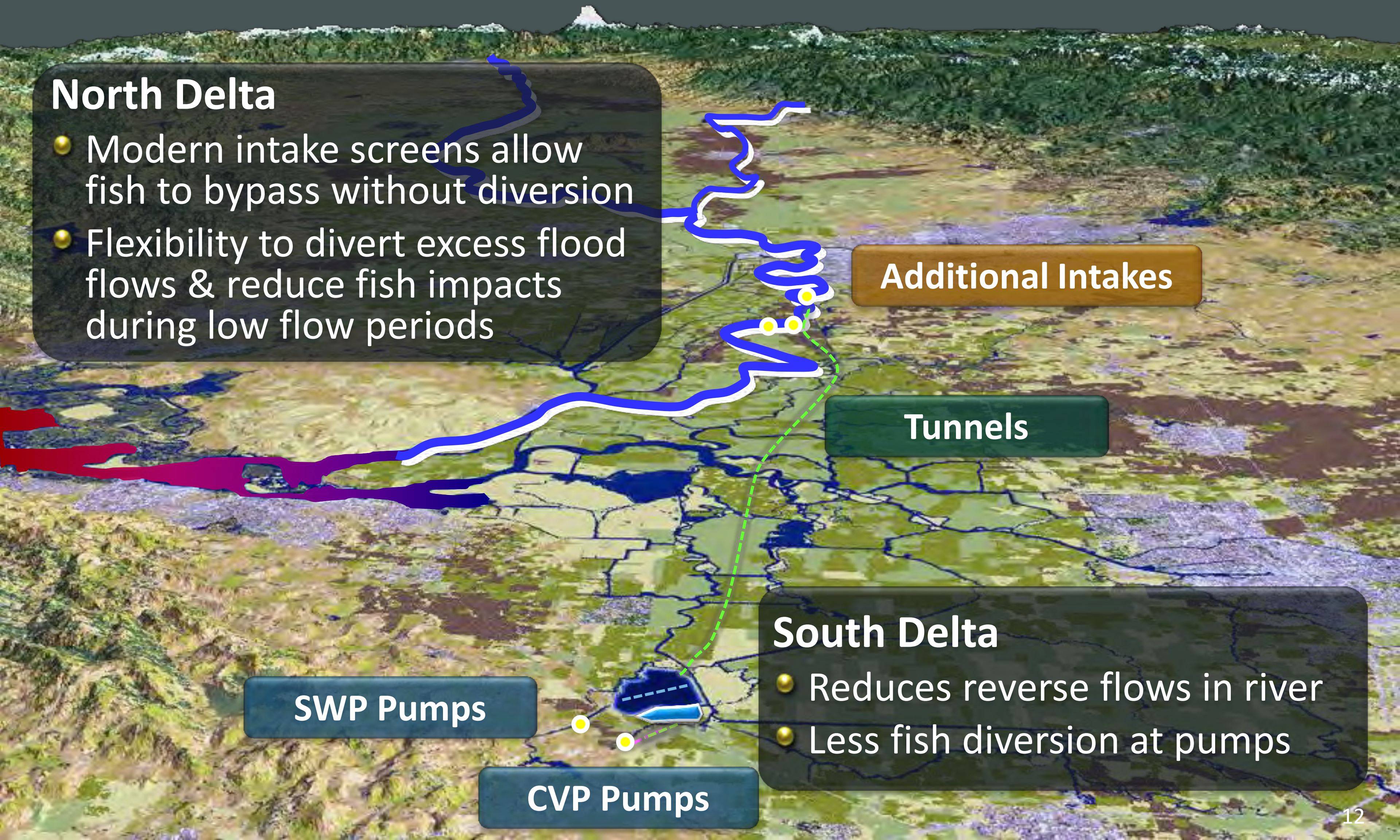
- Protects State's water supplies through Delta system upgrades
- Mitigation
  - Includes ~15,600 acres of habitat
- Water contractor funded
  - Dual tunnel facilities and mitigation

CALIFORNIA ECO RESTORE
A STRONGER DELTA ECOSYSTEM.

- Supports long-term health of native fish & wildlife
- Habitat restoration
  - ~ 30,000 acres in 5 years
- Includes broader public funding

11

Enhancing Ecosystem/Improving Reliability



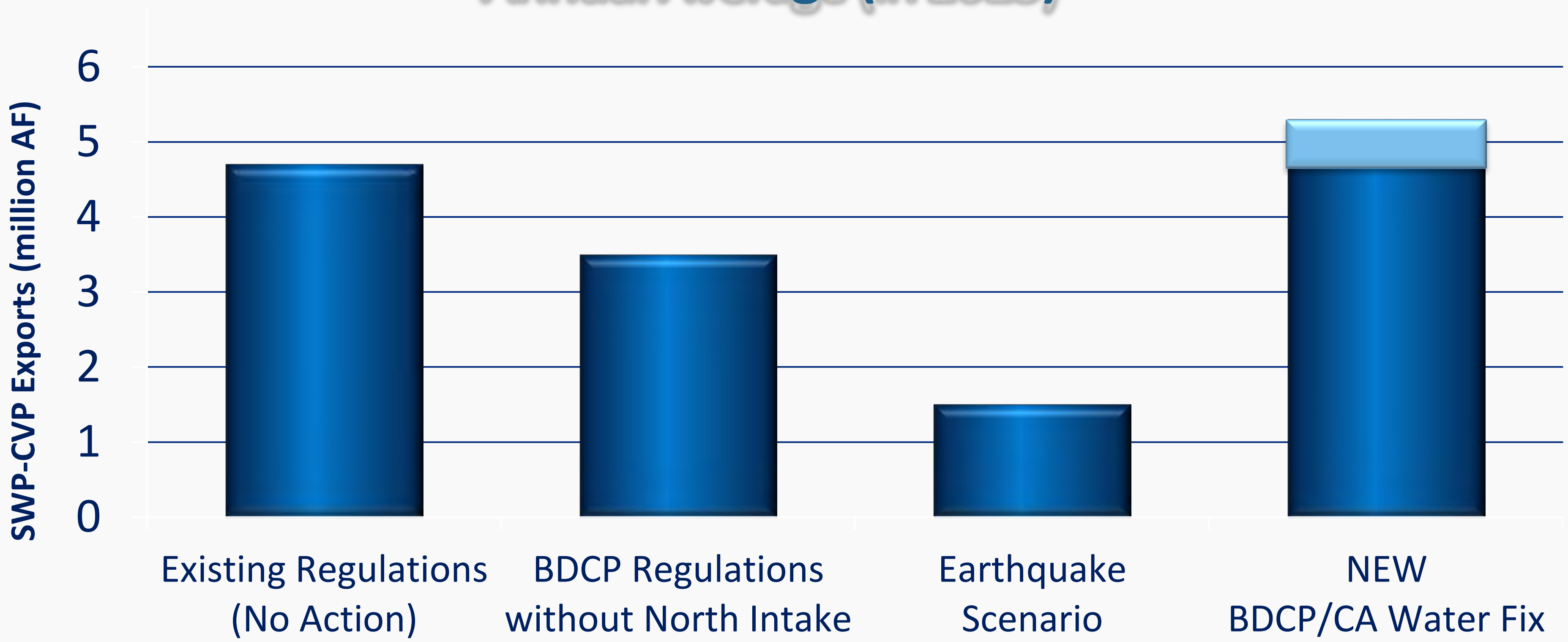
North Delta

- Modern intake screens allow fish to bypass without diversion
- Flexibility to divert excess flood flows & reduce fish impacts during low flow periods

South Delta

- Reduces reverse flows in river
- Less fish diversion at pumps

California Water Fix:
Improved State & Federal Project Reliability
Annual Average (in 2025)



Data based on hydrological period (1922-2003); indicates average annual SWP & CVP water supply exports with climate change in 2025

- *4.7 maf/yr – Existing Regulations (No Action Alternative) represents no new conveyance and no new/additional restrictions*
- *3.5 maf/yr – BDCP Proposed Regulations without Northern Intake (Existing Conditions High Outflow Scenario); BDCP Chapter 9*
- *1.5 maf/yr – Earthquake scenario BDCP Chapter 9; analyzed by Dr. David Sunding; minimal exports 1.5 to 3 years after earthquake*
- *4.7 – 5.3 maf/yr – NEW BDCP / Cal Water Fix Preferred Alternative (evaluated in Draft EIR/S as Alternative 4A H3-H4)*

California Water Fix
Improved Water Quality

- *Sacramento, San Joaquin & Colorado River water quality represents historical average annual recorded data*
- *State Water Project water quality is comparison of modeled data from the Recirculated Draft EIR/EIS*

California Water Fix
Updated Cost Analysis

IMPROVEMENTS	Capital	O&M (Total 50 Years)	TOTAL
Conveyance	$14.99 B	$1.46 B	$16.45 B
Mitigation, Monitoring	$0.56 to $0.82 B	$0.22 B	$0.78 to $1.04 B
TOTAL	**$15.55 to $15.81 billion**	**$1.68 billion**	**$17.23 to $17.49 billion**

Within $5 per household per month

Presented to Metropolitan's Board September 29, 2015

Estimated costs from DWR; in undiscounted 2014 dollars with a 36% contingency
Metropolitan's share is approximately 25%

California WaterFix
Summary of Planning Process

2006 – 2009
- BDCP Stakeholder Steering Committee formed
- Planning Agreement signed
- Alternative scoping, modeling, environmental analysis, etc.

2010 – 2011
- 1st Administrative Draft BDCP released to the public
- Admin Draft EIR/S Chapters posted online

2012
- 2nd Administrative Draft BDCP released to the public

2013 - 2014
- First Public Draft EIR/S & Draft BDCP released to the public
- 228 day comment period (Dec 13, 2013 – Jul 29, 2014)

2015
- Partially Recirculated DEIR & Supplemental DEIS released
- 112 day comment period (July 10 – October 30, 2015)

California WaterFix
Completing the Planning Process

Endangered Species Act Permits

Biological Assessment | Federal

State

USBR | DWR – Environmental Documentation/Analysis

Recirculated EIR/EIS

Final EIR/EIS

Decision

State Water Board – Water Rights | Water Quality

Water Right Decision | Water Quality Certification

Corps of Engineers Permits

Clean Water Act | Rivers and Harbors Act

2015 2016 2017

Time for Action

- Need to modernize
- Unsustainable system
  - Infrastructure
  - Ecosystem
  - Changing regulations
  - Changing environment
- Protect Investments
  - SWP
  - Storage
    - DVL/Inland Feeder
  - Treatment Processes
  - Local supplies
- Can't afford to delay

Stephen N. Arakawa
sarakawa@mwdh2o.com
mwdh2o.com
Bewaterwise.com
@mwdh2o

CRESCENTA VALLEY WATER DISTRICT
BOARD OF DIRECTORS - STAFF REPORT

Action Item No. 5
March 1, 2016

To: Honorable President and Members of the Board of Directors

From: David S. Gould. P.E. – District Engineer

Subject: **Water and Wastewater Rate Study, Project M-958**

ACTION ITEM:

Water and Wastewater Cost of Service Study, Project M-958 – Discussion of the Water and Wastewater Cost of Service Study.

BACKGROUND:

CVWD's staff is working with Raftelis Financial Consultants (RFC) on the preparation of new water and wastewater cost of service study. RFC was requested to evaluate water rate structure alternatives including a tiered rate structure, a tiered rate structure based on allotment of groundwater and imported water, and a water budget based tiered rate structure. RFC was also requested to evaluate the wastewater rate structure alternatives including the existing fixed fee wastewater rate structure and a fixed fee rate structure with a variable rate component.

- October 8, 2015 - Staff held a kick-off meeting with RFC to discuss the parameters of the study and outline the data needs from CVWD. Key issues discussed were community participation, fixed/variable revenue recovery, conservation incentives versus revenue impact, variable wastewater charges, allocation of lowest cost water, sensitivity about existing rates, and Proposition 218.
- November 3, 2015 - RFC gave a presentation on preparing a simplified "Water Budgets 101", which gave the Directors an understanding of a water budget based rate structure.
- November 18, 2015 - A public workshop was held which presented CVWD's operations, budget, reserve policy, the water and wastewater cost of service study, and alternative rate structures.
- January 19, 2016 - Staff discussed alternative water rate structures such as uniform rate, tier rate, and a water budget based rate. The Board requested staff to provide additional detailed information and a project schedule for further discussion.
- February 2, 2016 - Staff discussed the project schedule regarding the completion of the Cost of Service Study and preparing the FY 16/17 budget for approval by June 28, 2016.
- February 16, 2016 - Staff and RFC discussed the preliminary Financial Plan for the water and wastewater budgets including key assumptions, water production estimates, capital improvement projects, and other rate setting requirements. RFC also discussed CVWD's fixed costs vs variable costs relative to CVWD's service (fixed) charge. RFC discussed the water reserves policy with respect to including a capital improvement component. The Board agreed that CVWD's water reserves policy should not include a capital improvement component. RFC discussed the next steps toward finalizing the cost of service study which includes finalizing the financial plan, cost of service analysis, alternate water rate structures, and proposed water and wastewater rates. The Board requested that staff provide an updated project schedule which will include another public work shop, prepare the FY 16/17 water and wastewater budget for review, and to complete the study.

DISCUSSION:

Project Schedule:

Staff reviewed the project schedule as shown on the attachment with the goal of completing the cost of service analysis by the April 5, 2016 Board Meeting and approving the FY 16/17 budget by June 28, 2016. As shown on the schedule, staff is recommending Special Board meetings on March 22, 2016 and April 26, 2016 which are in addition to the regular Board meetings in March and April 2016. Staff is also recommending at least four (4) Finance Committee meetings to review the proposed water and wastewater budget and the Proposition 218 notice. Finally, staff is recommending a Public Workshop on April 5, 2016 to review the cost of service analysis and the alternate water rate structure.

Financial Plan

Staff is preparing the FY 16/17 budget using the current cash flow model and the new financial plan model concurrently. Projections for FY 15/16 year-end indicate that revenues will be below budget due to reduced water sales. However, reductions in expenses are projected to be sufficient to offset the reduced revenue.

Projected water demands is the most significant factor affecting the proposed FY 16/17 budget. The projected demands for the current FY 15/16 are 3,550 acre-feet. The FY 16/17 budget projections presented to the Board in June 2015 assumed total water demands of 3,845 acre-feet. Given the continuation of the state mandated conservation to October 2016, staff feels that the FY 16/17 water demand projection should be reduced in compliance with the conservation goal. The modified water demand projection is 3,750 acre-feet. This change results in a $900,000 reduction in water sales revenue (assuming the projected 6.5% rate increase), partially offset by a projected $200,000 reduction in purchased water and power expenses.

The new financial plan model will provide a useful tool in evaluating various scenarios and the impact on projected revenues, expenditures, debt, and other financial factors. The financial plan model will also have tools to perform cost of service evaluations for various scenarios.

The information in the current financial plan model is based on preliminary budget assumptions but staff and RFC are in the process of testing and validating the model calculations. The financial model presented at the March 1, 2016 Board meeting is only to demonstrate the model capability, not to provide financial data. The preliminary results from the financial model will be discussed with the Finance Committee on March 8th, following the initial validation testing.

Prepared by:	Submitted by:
David S. Gould, P.E.	Thomas A. Love
District Engineer	General Manager

Attachments:

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Crescenta Valley Water District

Water and Wastewater Cost of Service and Budget Project Schedule

Task	Board Mtg. Date	Committee Meeting Date	Status	Person Responsible	Start Date	End Date	Comments
Update Water and Wastewater Budget for Financial Plan			Complete	CVWD	2/10/16	2/17/16	Sent to RFC - 2/17/16
Finalize Reserve Policy			Complete	CVWD/RFC	2/16/16	2/16/16	Board Mtg. - No Capital Reserve - Water Only
Budget Review - Water and Wastewater			85%	CVWD	2/19/16	2/26/16	Review Expense, water production, CIP
Finalize Financial Plan - Water and Wastewater	**3/1/16**		85%	RFC	2/16/16	2/26/16	Regular Board Meeting *(Based on 2/16/16 Budget to RFC)* Packet out by 2/26/16
Finance Committee - Budget Review - Water and Wastewater		**3/8/16**	50%	CVWD/ Finance Committee	2/19/16	3/11/16	Review Assumptions & Goals Packet out by 3/7/16 Meeting notes for Board - 3/11/16
Preliminary Cost of Service Analyses - Water and Wastewater	**3/15/16**		50%	CVWD/RFC	2/26/16	3/11/16	Regular Board Meeting Packet out by 3/11/16
AWWA Conference - 3/21/16 to 3/24/16							
Alternate Rate Structures -Water Only	**3/22/16**		25%	CVWD/RFC	2/29/16	3/18/16	**Special Board Meeting** **Packet out by 3/18/16** CVWD/RFC to review Scope of Work for Water Budget CVWD - Costs to do Water Budget RFC to prepare sample customer bills for each alternative
Finance Committee - Budget Review - Water and Wastewater		**3/29/16**	0%	CVWD/ Finance Committee	3/18/16	4/1/16	Review Preliminary Budget & Rate Increase Packet out by 3/28/16 Meeting Notes by 4/1/16
Public Workshop **Review Budget, Cost of Service and Alternative Water Rate Structure**	**4/5/16**		0%	CVWD/RFC	3/11/16	4/1/16	Regular Board Meeting Packet out by 4/1/16 1. Budget Review 2. Rate Structure 3. Cost of Service
Finance Committee - Budget Review - Water and Wastewater		**4/8/16**	0%	CVWD/ Finance Committee	4/1/16	4/15/16	Review Final Budget & Rate Increase Packet out by 4/7/16 Meeting Notes by 4/15/16
Proposed water & wastewater rates **Preliminary Prop. 218 Notice**	**4/19/16**		0%		4/1/16	4/15/16	Regular Board Meeting Packet out on 4/15/16
Finance Committee -Prop. 218 Approve Water and Wastewater		**4/22/16**	0%	CVWD/ Finance Committee	4/15/16	4/22/16	Final Review Prop. 218 Notice Packet out by 4/21/16 Meeting Notes by 4/22/16
Prop. 218 Notice - Approve **Water and Wastewater**	**4/26/16**		0%		4/15/16	4/22/16	Special Board Meeting Packet out by 4/22/16
Send Prop 218 Notice to Printer	**4/27/16**		0%	CVWD	4/22/16	4/27/16	8 working days for the printer to send out notice
No Board Meeting	**5/3/16**						Regular Board Meeting
ACWA Conference - 5/2/16 to 5/5/16							
Send Prop 218 Notice - Send out	**5/6/16**		0%	CVWD/ Printer	4/27/16	5/6/16	45 day review period
	5/20/16		0%				Regular Board Meeting
	6/7/16		0%				Regular Board Meeting
Comments - Prop 218 Notice Due	**6/20/16**		0%	CVWD	5/6/16	6/20/16	Comments due on Monday, 6/20/16
Prop 218 - Public Hearing	**6/21/16**		0%		6/7/16	6/17/16	Regular Board Meeting Packet out by 6/17/16
Board Approve FY 16/17 Budget	**6/28/16**		0%		6/18/16	6/24/16	Special Board Meeting Packets out by 6/24/16

Revised Date: 2/26/2016

State of the System 2016

Our Progress Toward a Sustainable Pension Fund

By Rob Feckner, President of the CalPERS Board of Administration

Rob Feckner

The year 2015 was marked with significant progress toward ensuring the long-term soundness and sustainability of CalPERS. We saw improved cost-effectiveness, combined with innovation and risk mitigation measures, which bolstered the security of the Public Employees' Retirement Fund for generations to come.

The fact that our members are living longer is a sobering reminder that we have a growing obligation to provide for their pensions. Just a decade ago the ratio of active workers to retirees was over 2 to 1. That ratio is now 1.3 workers to every retiree, and we pay out more in benefits than we receive in contributions.

In response, our Board approved a policy designed to reduce the discount rate, our 7.5 percent assumed rate of return on investments, over time. The result will help pay down the pension fund's unfunded liability and reduce risk and volatility in the fund.

Consistent with our long-term investment strategy, we maintain a vigorous and proactive approach toward improvements in corporate governance. During the past year, we continued to voice strong support for more shareowner input in the election of corporate board members and called for more efforts to reduce the threat of climate change.

"...the New Year also brings a fresh opportunity for accomplishment as we continue our innovative, cost-conscious pursuit of even better ways to serve the people who serve California."

We implemented a Treasury Management Program to ensure we can pay member benefits and organizational expenses without interruption regardless of financial markets and environmental conditions.

Last year, we also saw lower health care premiums for 570,000 of our members. Removing ineligible persons from our health plans and introducing a new alternative Medicare plan resulted in a savings of $124 million.

And in June, we launched a new website to deliver enhanced service to both members and employers through upgraded search capability and greater mobile device compatibility.

Now in 2016, the headwinds of volatility in the financial markets may raise uncertainties in the global economy; however, the New Year also brings a fresh opportunity for accomplishment as we continue our innovative, cost-conscious pursuit of even better ways to serve the people who serve California.

NOTICE TO STATE WATER PROJECT CONTRACTORS

Date: FEB 2 4 2016

Number: **16 - 04**

Subject: 2016 State Water Project Allocation – 30 Percent

From: Jeanne M. Kuttel for
Mark E. Andersen
Acting Deputy Director
Department of Water Resources

The Department of Water Resources (DWR) is increasing the allocation of 2016 State Water Project (SWP) water for the long-term contractors from 631,115 acre-feet to 1,268,724 acre-feet. Due primarily to recent storms, SWP supplies are projected to increase from 15 percent to 30 percent of most SWP contractors' requests for Table A water, which totals 4,172,786 acre-feet. Attached is the updated 2016 SWP Allocation Table.

In addition, DWR received requests for delivery of SWP contractors' allocated carryover water from previous years totaling 184,274 acre-feet based on the 2015 Water Delivery Finalization Report. DWR approves all requested carryover water for delivery in 2016.

This allocation increase is made consistent with the current and projected hydrological conditions and also with the long-term water supply contracts and public policy. DWR considered several factors, including California's persistent drought evidenced by below normal runoff compared to rain received thus far this winter and resulting continued low storage in SWP conservation facilities; SWP operational constraints under its water right permits; the Biological Opinions for Delta Smelt and Salmon; the Longfin Smelt incidental take permit; and the 2016 contractors demands.

If you have any questions or need additional information, please contact Pedro Villalobos, Acting Chief, State Water Project Analysis Office, at (916) 653-5117.

Attachment

2016 STATE WATER PROJECT ALLOCATION
(ACRE-FEET)

SWP CONTRACTORS	TABLE A (1)	INITIAL REQUEST (2)	APPROVED ALLOCATION (3)	PERCENT INITIAL REQUEST APPROVED (3)/(2) (4)
FEATHER RIVER				
County of Butte	27,500	27,500	16,500	60%
Plumas County FC&WCD	2,700	2,700	810	30%
City of Yuba City	9,600	9,600	3,840	40%
Subtotal	**39,800**	**39,800**	**21,150**	
NORTH BAY				
Napa County FC&WCD	29,025	29,025	11,610	40%
Solano County WA	47,756	47,756	19,102	40%
Subtotal	**76,781**	**76,781**	**30,712**	
SOUTH BAY				
Alameda County FC&WCD, Zone 7	80,619	80,619	24,186	30%
Alameda County WD	42,000	42,000	12,600	30%
Santa Clara Valley WD	100,000	100,000	30,000	30%
Subtotal	**222,619**	**222,619**	**66,786**	
SAN JOAQUIN VALLEY				
Oak Flat WD	5,700	5,700	1,710	30%
County of Kings	9,305	9,305	2,792	30%
Dudley Ridge WD	45,350	45,350	13,605	30%
Empire West Side ID	3,000	3,000	900	30%
Kern County WA	982,730	982,730	294,819	30%
Tulare Lake Basin WSD	87,471	87,471	26,241	30%
Subtotal	**1,133,556**	**1,133,556**	**340,067**	
CENTRAL COASTAL				
San Luis Obispo County FC&WCD	25,000	25,000	7,500	30%
Santa Barbara County FC&WCD	45,486	45,486	13,646	30%
Subtotal	**70,486**	**70,486**	**21,146**	
SOUTHERN CALIFORNIA				
Antelope Valley-East Kern WA	144,844	144,844	43,453	30%
Castaic Lake WA	95,200	95,200	28,560	30%
Coachella Valley WD	138,350	138,350	41,505	30%
Crestline-Lake Arrowhead WA	5,800	5,800	1,740	30%
Desert WA	55,750	55,750	16,725	30%
Littlerock Creek ID	2,300	2,300	690	30%
Metropolitan WDSC	1,911,500	1,911,500	573,450	30%
Mojave WA	85,800	85,800	25,740	30%
Palmdale WD	21,300	21,300	6,390	30%
San Bernardino Valley MWD	102,600	102,600	30,780	30%
San Gabriel Valley MWD	28,800	28,800	8,640	30%
San Gorgonio Pass WA	17,300	17,300	5,190	30%
Ventura County WPD	20,000	20,000	6,000	30%
Subtotal	**2,629,544**	**2,629,544**	**788,863**	
TOTAL	**4,172,786**	**4,172,786**	**1,268,724**	

SWPAO
2/24/2016

CRESCENTA VALLEY WATER DISTRICT
INVESTMENT PORTFOLIO SUMMARY
February 26, 2016

INVESTMENT TYPE	ACCT/CUSIP I.D. NO.	PURCHASE DATE	*FACE VALUE	INVESTMENT COST	% OF TOTAL	**MARKET VALUE	MATURITY DATE	DATE CALLABLE	EARNED TO DATE	YIELD TO MATURITY	
GENERAL FUNDS											
GENERAL FUND-SWEEP ACCOUNT	0631-525246		$ 783,956	$ 783,956	4.58%	$ 783,956	none	n/a	$ 288	0.02%	
GREAT PACIFIC SECURITIES	GPC-804452		$ 271,582	$ 271,582	1.59%	$ 271,582	none	n/a	$ 8	0.02%	
BOND DEBT SERVICE FUND	6948-331525		$ 278,181	$ 278,181	1.63%	$ 278,181	none	n/a	$ 80	0.06%	
LOCAL AGENCY INVESTMENT FUND	90-19-007		$ 8,126,304	$ 8,126,304	47.48%	$ 8,126,304	none	n/a	$ 4,312	0.37%	Dec 2015
TRANSFER FROM MTBE RESERVE			$ 2,000,000	$ 2,000,000	11.68%	$ 2,000,000					
FEDERAL FARM CREDIT (78)	3133EAZN1	7/17/2012	$ 500,000	$ 500,000	2.92%	$ 499,795	7/24/2020	10/24/2012	$ 5,419	1.84%	
FEDERAL FARM CREDIT (81) SOLD	3133EAYP7	9/11/2012	$ -	$ -	0.00%	$ -	7/19/2022	n/a	$ 11,429	1.95%	
FEDERAL FARM CREDIT (83)	3133EAY28	10/9/2012	$ 500,000	$ 502,885	2.94%	$ 500,365	9/21/2017	n/a	$ 2,445	0.71%	
FEDERAL FARM CREDIT (86)	3133EC4L5	11/15/2012	$ 1,000,000	$ 1,002,300	5.86%	$ 998,110	11/23/2021	n/a	$ 9,484	1.58%	
FEDERAL FARM CREDIT (87)	3133EC4Y7	11/19/2012	$ 500,000	$ 500,000	2.92%	$ 499,990	11/27/2017	n/a	$ 2,739	0.93%	
FEDERAL FARM CREDIT (96)	3133EENM8	2/2/2015	$ 1,000,000	$ 1,001,790	5.85%	$ 983,950	2/6/2025	n/a	$ 12,723	2.14%	
FEDERAL FARM CREDIT (97) SOLD	3133EENM8	2/9/2015	$ -	$ -	0.00%	$ -	2/6/2025	n/a	$ 16,010	2.38%	
US TREASURY (99) SOLD	912828L99	10/28/2015	$ -	$ -	0.00%	$ -	10/31/2020	n/a	$ 2,946	1.44%	
			$ 14,960,022	**$ 14,966,997**		**$ 14,942,232**			**$ 67,883**		
CONSTRUCTION FUNDS											
COPS RESERVE FUND	108614000		$ 617,088	$ 617,088	3.61%	$ 617,088	none	n/a	$ 83	0.02%	
			$ 617,088	**$ 617,088**		**$ 617,088**			**$ 83**		
MTBE CONTINGENCY FUNDS											
LOCAL AGENCY INVESTMENT FUND	90-19-007		$ 449,071	$ 449,071	2.62%	$ 449,071	none	n/a	$ -	0.37%	Dec 2015
GREAT PACIFIC SECURITIES	GPC-003670		$ 1,927,910	$ 1,927,910	11.26%	$ 1,927,910	none	n/a	$ -	0.02%	
TRANSFER TO WATER RESERVE			$ (2,000,000)	$ (2,000,000)	-11.68%	$ (2,000,000)					
FEDERAL FARM CREDIT (M-35) SOLD	3133EDWX6	2/3/2015	$ -	$ -	0.00%	$ -	10/7/2024	n/a	$ 17,141	2.19%	
US TREASURY (M-36) SOLD	912828J27	2/6/2015	$ -	$ -	0.00%	$ -	2/15/2025	n/a	$ 11,781	2.00%	
FEDERAL FARM CREDIT (M-38A) SOLD	3133EEWP1	4/22/2015	$ -	$ -	0.00%	$ -	4/1/2025	n/a	$ 13,690	2.41%	
FEDERAL FARM CREDIT (M-38B) SOLD	3133EEWP1	4/23/2015	$ -	$ -	0.00%	$ -	4/1/2025	n/a	$ 13,960	2.38%	
US TREASURY (M-40) SOLD	912828J27	4/27/2015	$ -	$ -	0.00%	$ -	2/15/2025	n/a	$ 11,781	1.90%	
US TREASURY (M-42) SOLD	912828L99	12/16/2015	$ -	$ -	0.00%	$ -	10/31/2020	n/a	$ 793	1.70%	
US TREASURY (M-43) SOLD	912828N48	12/29/2015	$ -	$ -	0.00%	$ -	12/31/2020	n/a	$ 240	1.89%	
US TREASURY (M-43) SOLD	912828N48	12/29/2015	$ -	$ -	0.00%	$ -	12/31/2020	n/a	$ 240	1.89%	
FEDERAL FARM CREDIT (M-44) NEW	3133ECZR8	2/24/2016	$ 1,000,000	$ 1,145,730	6.69%	$ 1,145,730	9/12/2025	n/a	$ -	2.19%	
			$ 1,376,980	**$ 1,522,710**		**$ 1,522,710**			**$ 69,627**		
TOTAL INVESTMENTS			$ 16,954,090	$ 17,106,795		$ 17,082,030			$ 137,593		
CASH- PAYROLL ACCOUNT	0948-024724		$ 9,480	$ 9,480	0.06%	$ 9,480					
TOTAL CASH AND INVESTMENTS			**$ 16,963,570**	**$ 17,116,275**	**100%**	**$ 17,091,510**			**$ 137,593**	**0.94%**	
						$ (24,765)	***Unrealized Gain/(Loss) on Investments				

Yield on investments including LAIF but not cash accounts	1.27%
Yield on investments not including LAIF or cash accounts	1.57%

I certify that this report accurately reflects all pooled investments and is in compliance with California Government Code Sections 5922 & 53601 as amended on 1/1/97; are currently in conformity with the investment policy as stated in Resolution No. 728 adopted on December 8, 2015.
As Treasurer of the Crescenta Valley Water District, I, Ron L. Mitchell hereby certify that sufficient investment liquidity and anticipated revenues are available to meet one year of estimated expenditures for the operations of Crescenta Valley Water District.

*Value at investment maturity date.

***Reported in compliance with GASB Standard No. 31, effective July 1, 1997, the "fair value" adjustment necessary between cost and market value.

As of December 31, 2015

Water	$ 11,047,533.65
Wastewater	$ 5,551,593.11
Total Funds	$ 16,599,126.76

February 26, 2016

Ron L. Mitchell, Secretary-Treasurer, CVWD **Date**

CRESCENTA VALLEY WATER DISTRICT
BOARD OF DIRECTORS - STAFF REPORT

March 1, 2016
Staff Report

To: Honorable President and Members of the Board of Directors

From: David S. Gould. P.E. – District Engineer

Subject: **District Engineer – Staff Report**

---

1. **Water Production Report**
   - February 1 – 29 – Water Production – 61%/ 39% split – 85.0 MG for the time period.
     Average use – 6.4% less than 2015 and 12% less than 5-yr average
     SWRCB Conservation – 29.0% less than June 2013 – Feb 2014 period

2. **Rainfall Update**
   - 0.94” for February 2016
   - Rainfall total for Rainfall Year 2015/16 – 8.34"

3. **Report on Engineering**
   - **CIP Projects**
     - Ocean View Chloramination Project
       - Building – Under Construction
     - Pipeline Projects
       - Construction on 3900 Block of Park Pl. to start March 7, 2016
     - Well 16 – Pipeline & Building
       - Building & Facilities - Final Project Close Out
       - Approval – LA County Discharge Permit
       - Finalizing Approval from Department of Drinking Water
       - Dedication Ceremony – TBA
     - Pickens Canyon Slope Repair
       - Brush Clearance – Complete
       - Erosion Control – Complete
   - **Water and Wastewater Cost of Service Study**
     - Discussion at Board Meeting
   - **Nitrate Removal Treatment Facility at Well 2 Project**
     - 50% technical memorandum by March 4, 2016
   - **Crescenta Valley County Park Stormwater Recharge Facility Study**
     - No Report
   - **ULARA**
     - No Report
   - **La Canada Flintridge – Water Committee**
     - No Report
   - **Water Meter Replacement Program**
     - FY 15/16 water meter replacement program – Replaced 530 meters to date

4. Report on Administrative and Field Operations

- **Wells - Status**
  - Well production capacity averaging 1.9 MGD for February

5. Field Maintenance & Operations – Feb 13 – Feb 26, 2016

- **Reservoir Site Assessment**
  - No Report
- **Water Lateral Leaks & Repairs**
  - 5144 La Crescenta
  - 3147 Encinal
  - 5447 Ocean View
  - 1928 Waltonia
- **Fire Hydrant Repair**
  - No Report
- **Developer Job**
  - New Fire Hydrant Service for Holy Redeemer Church
- **Water Main Leaks**
  - No Report
- **Reservoir Maintenance**
  - No Report
- **Sewer Maintenance**
  - 4300-4400 Blocks of Ramsdell
  - , 4400-4600 Blocks of Penn
  - 2900 Block of Mary
  - 2800 - 3100 Blocks of Prospect
  - 4400 Block of Glenwood
  - 2900 – 3100 Blocks of Community
  - 3100 Block of Evelyn,
  - 3100 Block of Abella
  - 4300 Block of Cloud,

CRESCENTA VALLEY WATER DISTRICT

WATER PRODUCTION REPORT

February 1 - February 29, 2016

Well Production:	50,740,593	Gals		
Gravity Production:	1,173,000	Gals	% GW	61%
Purchased Water:				
FMWD:	33,119,250	Gals		
City of Glendale:	0	Gals	% Import	39%
TOTAL:	85,032,843	Gals		
	260.94	ac-ft		
Glenwood Nitrate Water Reclamation Plant:*	10,699,473	*Included in Well Production		

WATER DEMAND COMPARISON

	Average Daily Usage (gals)	Current Period Change	Average Daily Usage (gals)	Percentage Change
February 1, 2016 - February 29, 2016	2,932,167			
February 1, 2015 - February 29, 2015	3,131,962	-6.4%		
5-yr Average - February 2011 - 2015	3,331,992	-12.0%		
SWRCB CONSERVATION REGULATIONS June 1, 2015 through Feb 29, 2016			3,178,270	
BASELINE CONSERVATION June 1, 2013 through Feb 28, 2014			4,473,475	-29.0%

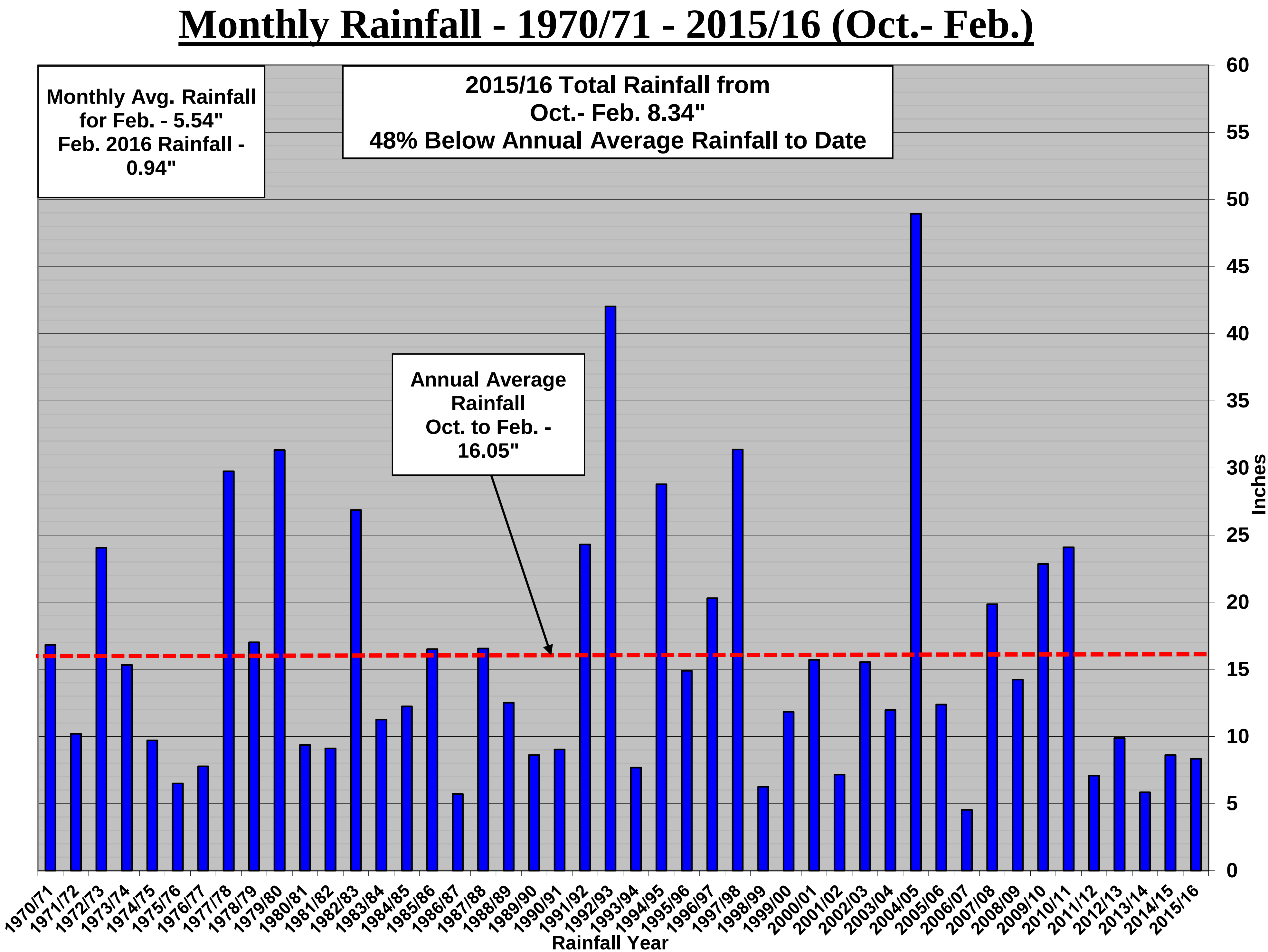
RAINFALL: February 1 - February 29, 2016 — 0.94"

Season-To-Date: — 8.34"

2015/16 Fiscal Year Water Production			**Groundwater Production Water Rights**		**Purchased Water Production Tier 2 Allocation**		**FMWD Water Supply Allocation Plan**	
Month	**Actual Total Water Production (ac-ft)**	**Projected Total Water Production (ac-ft)**	**Month**	**Well Production (ac-ft)**	**Month**	**Imported Water Production (ac-ft)**	**Month (July 15 - June 16)**	**Imported Water Production (ac-ft)**
July	**315**	**380**	**October**	**143**	**January**	**108**	**July**	**161**
August	**344**	**360**	**November**	**149**	**February**	**102**	**August**	**176**
September	**296**	**345**	**December**	**145**	**March**		**September**	**151**
October	**301**	**315**	**January**	**140**	**April**		**October**	**158**
November	**289**	**265**	**February**	**159**	**May**		**November**	**140**
December	**281**	**265**	**March**		**June**		**December**	**136**
January	**248**	**265**	**April**		**July**		**January**	**108**
February	**261**	**265**	**May**		**August**		**February**	**102**
March		**310**	**June**		**September**		**March**	**65**
April		**335**	**July**		**October**		**April**	**80**
May		**365**	**August**		**November**		**May**	**100**
June		**375**	**September**		**December**		**June**	**110**
Total to Date	2,335	2,460	Total to Date	736	Total to Date	210	Total to Date	1,487
Projected	3,720	3,845	Water Rights	3,294	Tier 2	2,154	WSAP	2,009
% of Projected	60.7%	64.0%	% of Rights	22%	% of Allocation	10%	% of Allocation	74%
Remaining	1,510	1,385	Remaining	2,558	Remaining	1,944	Remaining	522

NOTE:

1) Blue Numbers - Estimate Total Water Production



Revised Date: 2/26/2016

CRESCENTA VALLEY WATER DISTRICT
BOARD OF DIRECTORS - STAFF REPORT

March 1, 2016
Staff Report

To: Honorable President and Members of the Board of Directors

From: Christy J. Scott

Subject: **Water Conservation Update / Regulatory Update**

Monitoring Report Submitted to State for February 2016:

***Production Numbers**

Total Water Production February 2016:	264 AF
Total Water Production February 2013:	275 AF
Percent Reduction:	4.1 %
Residential Gallons per Capita per Day (R-GPCD) February 2016:	81

***Compliance Reporting**

Days of outdoor Irrigation Allowed:	2
Number of Water Waste Complaints:	7
Number of Follow-ups:	7
Number of Warnings:	7
Number of Penalties:	0

***Mandatory Water Reduction Goal**

Compliance Period:	June 2015 – October 2016
Compliance Goal:	1669 AF
Acre Feet Saved for February:	11 AF
Acre Feet Saved to Date:	929 AF
Percentage of Goal Saved	55.7%
Acre Feet Remaining to Reach Target:	740 AF

* **February numbers are estimated. Calculations were done prior to the end of the month, and the District will be filling reservoirs during the last few days of February to prepare for the imported water shutdown.**

Mandatory Water Reduction Goal numbers have been updated to reflect the new compliance target as calculated to extend the State compliance period through October of 2016. In regards to the 4.1 reduction percentage estimated for February, this does not throw the District off target to reach its overall conservation goal. The anticipated savings for February, based on historical figures, was only anticipated to be approximately 3%. Staff is monitoring water usage daily to ensure that the District will meet the final goal. Projections for potential savings for the compliance period were calculated using two different methods. The first method used monthly production numbers provided by the Engineering Department which evaluated historical trends and weather conditions. The second method used the actual percent savings on a month to month basis realized during the 2015 calendar year. Both methods of calculation indicate that the District should exceed its target goal by approximately 9%.

Again, staff will be monitoring production daily and reporting to the Board the status of the mandatory water reduction goal. Staff is also prepared to modify its existing outreach and enforcement actions, should that be necessary.

Turf Rebates: (FINAL NUMBERS)

Pending Applications:	0
CVWD Funds Remaining:	$0
Funds Submitted to MWD July 2014 to December 2015:	$739,870.00
MWD outstanding:	$44,500.00
Total Square footage of turf removed:	371,035

MWD Shutdown Update

The MWD Shutdown will begin, on Monday, February 29tt and last as long as Thursday March 10th. The District has been informed that the shutdown may allow FMWD to provide water to the West Side (CVWD and La Canada) and end as early as Friday March 4th.

The District will begin taking water on Monday, February 29th from Glendale Water and Power. Glendale Water and Power informed the District on Tuesday, that due to reduced storage in their system on this side, daily coordination will be required as to how much water they can provide to the District. Despite this small change, staff is confident with its overall water supply conditions during the shutdown and is prepared to make operational changes should they be necessary.

The Red-Critical alert signage will remain posted throughout the District until such time that the District is allowed to take water from FMWD. Notifications will be made through Nixle, Nextdoor, and the Crescenta Valley Community Page to alert customers when the shutdown begins and ends.

Urban Water Management Plan (UWMP):

The 2015 UWMP is due to the Department of Water Resources July 1, 2016.

The District is currently gathering information for SA Associates.

Regulatory Updates:

SB804: Referred to Judicial and Natural Resources and Water Committee on January 28th, 2016

<u>Calendar:</u>

March 12th – Smart Gardening/Compost Class – CVWD Glenwood Plant – 9:30 a.m.

Additional classes on July 16th and September 24th

March 12th and 13th – Cherry Blossom Festival – Descanso Gardens – 9:00 a.m.

March 15th – Free Tuesday (3rd Tuesday of every month) – Descanso Gardens

April 16th – Center Circle Garden Plants Discussion – Descanso Gardens – 10:00 a.m.

April 16th – Sustainable Garden Design – Descanso Gardens – 10:00 a.m.

April 16th – Hometown Fair – CV Park – 10:00 a.m. to 6:00 p.m.

April 21st – 24th – Mt. Sac Plant Sale – Descanso Gardens – 9:00 a.m.

CRESCENTA VALLEY WATER DISTRICT

2700 FOOTHILL BOULEVARD
LA CRESCENTA, CALIFORNIA

Minutes for the
Meeting of the Community Relations and Water Conservation Committee
of the Crescenta Valley Water District
held on Tuesday, February 23, 2016 at 8:00 AM

Call to Order

The meeting was called to order at 8:04 a.m.

In Attendance: Ken Putnam, Committee Chair
Director Erickson
Thomas Love
Christy Scott
Ron Mitchell
Natalie Bellissimo

Adoption of Agenda

Public Comments

There were no public in attendance.

Action Calendar

Prior to reviewing the budget, there was a brief discussion related to the recent articles in the LA Times. (Articles Attached).

Staff briefly outlined the communication strategy for the upcoming imported water shutdown beginning February 29, 2016.

There was discussion from the Committee regarding direct customer outreach, and ways to reach customers who don't read the paper or attend community events. This led to a discussion on the feasibility of direct mailers, or modifications to the current water bill which would include the customers' reduction (current usage as compared to 2013 usage) and a conservation target.

Staff will gather information and discuss costs at a future Committee meeting.

1. Proposed 2016/2017 Water Conservation Budget

The proposed budget for fiscal year 2016/2017 was discussed. There was additional conversation regarding ways to increase customer communications, separate from the list of community events in which the District participates. There was additional dialogue regarding customers' desensitization to the current drought conditions and on the District's progress in meeting its State mandated conservation target. The Committee asked about conservation targets by sector. Staff is hoping that the new software "Simpler Solutions" will be able to create those types of reports which have been unavailable (except by manual manipulation) through the Springbrook billing program.

The following changes were recommended for the Water Conservation 2016/2017 fiscal year budget:

1. Increase line item 3 to the budgeted amount which meets the BMP standards for annual percentage of water audits required. (Target high-end water users)
2. For line 5, mail the information letter regarding available school assemblies to the GUSD main office with a list of schools in the District who are eligible to receive a free school assembly.
3. Renaming line 10 “Advertising” to “Customer Communications” and raise the budget amount to encompass increased customer communications mailers.

   Regarding Turf Rebates, it was agreed that the line item would stay and be revisited when MWD makes its final decision on their conservation budget. However, the Committee noted that the $800 rebate was not a real motivating incentive.

Note: Budget is subject to review with the water budget in its entirety by the Finance Committee and then by vote of the Board of Directors.

Adjournment: 9:15 a.m.

CRESCENTA VALLEY WATER DISTRICT

2700 FOOTHILL BOULEVARD
LA CRESCENTA, CALIFORNIA

Agenda for the
Meeting of the Community Relations and Water Conservation Committee
of the Crescenta Valley Water District
To be held on Tuesday, February 23, 2016 at 8:00 AM

Call to Order

Adoption of Agenda

Public Comments

At this time members of the public shall have an opportunity to address the committee on items of interest that are within the subject matter jurisdiction of the Committee. This opportunity is non-transferable and speakers are limited to three (3) minutes each.

Action Calendar

1. Proposed 2016/2017 Water Conservation Budget

Committee Member's Request for Future Agenda Items

Adjournment Time:

CRESCENTA VALLEY WATER DISTRICT
STAFF REPORT

February 23, 2016

To: Community Relations, Water Conservation Committee

From: Christy J. Scott

Subject: **2016/2017 Budget**

Attached is the Proposed 2016/2017 Water Conservation Budget (Attachment A). For the 2015/2016 Budget Year, Staff reduced expenses as much as possible to compensate for reduced revenues from the drought restrictions. To date, for the 2015/2016 fiscal year budget, approximately 37% has been cut from an already reduced 2015/2016 Fiscal Year budget. When establishing the 2016/2017 Water Conservation Budget, thought went into the goals of the District and the programs which would continue to enhance and support the District's mission, promote water use efficiency, and be compliant with Best Management Practices associated with the CUWCC for continued grant eligibility.

Please note, at the time of this report, MWD has not indicated which conservation programs or amounts will be offered for the 2016/2017 fiscal year. It is estimated that the MWD total conservation budget will be approximately $25,000,000, but again, a breakdown of that amount has not been communicated. In fact, there is not a definite answer as to whether or not MWD will offer a turf rebate program. However, any turf program will be very limited in comparison to last year's program.

<u>Current Rebates:</u> (All rebates are issued through socalwatersmart, MWD's vendor)

High-Efficiency Clothes Washers (Qty: 1) ($85.00 MWD, $50.00 CVWD)	$135.00
High-Efficiency Toilets (Qty: 1-9) ($40.00 MWD, $60.00 CVWD)	$100.00
Weather-Based Irrigation Controllers (<1 acre, Qty:2 max/address)	$120.00
Soil Moisture Sensor (< 1 acre, Qty: 2/address)	$ 80.00
Rain Barrel (Qty: 1-4, max 4/address)	$ 75.00
Rotating Sprinkler Nozzles (min. of 30 nozzles)	$ 2.00

Proposed 2016/2017 Budget, Lines 1 and 2 (Same amount as 2015/2016 Budget)

Budget lines one and two are funds set aside to supplement the rebates from the Metropolitan Water District of Southern California, (MWD). These funds are added to the rebate for Crescenta Valley Water District through the So Cal Water Smart Website. For example, if a customer applied with a qualifying toilet to the So Cal Water Smart Program, they would receive a rebate of $100.00 ($40.00 from MWD and $60.00 from CVWD). MWD then bills CVWD through the FMWD monthly water bill. The current supplemental rebate amounts are listed above.

Proposed 2016/2017 Budget, Line 3 ($1,000 less than the 2015/2016 Budget)

Line three, Water Audits is a BMP Requirement. Water Audits are a useful tool in assisting our customers to reduce excessive water use and are free to customers with usage greater than 22 units per billing cycle. The water audit is performed by a third party vendor and inspects both indoor and outdoor aspects of the property, with a thorough inspection of the irrigation system. A detailed report on how the customer can save water is provided (Attachment B). In an effort to conserve funds, staff is not currently promoting water audits only offering this service upon request to customer who meet the usage criteria.

Proposed 2016/2017 Budget, Line 4 (Same amount as 2015/2016 Budget)

Line four is the Turf Rebate Program. The District has administered its own turf removal program since 2003. In the proposed budget, $35,000.00 has been designated for the District's turf removal program. The current amount of the District's program is $1.00 per square foot with a maximum rebate of $800.00 per rebate. District funds for the 2015/2016 Fiscal year were depleted quickly with MWD offering $2.00 per square foot. Despite the surge in the number of applicants, the District was able to achieve a 90% completion rate and process 251 applications for a total of 371,035 square feet of turf removed. At the conclusion of the program, approximately 35 customers were on the wait list.

The turf removal rebate program would contain two new pre-qualifications:

- Water-use greater than 35 units or more per billing cycle
- No previous turf rebates for the property address

Proposed 2016/2017 Budget, Line 5 ($1,000 less than the 2015/2016 Budget)

Line five, School Programs including assemblies, books, and educational materials, fulfills the BMP requirement for education. The District is currently using two vendors for school assemblies, Mad Science (Building Block Entertainment) and Shows That Teach. There has been very good feedback from the schools regarding both vendors. In addition, the District provides age appropriate books to school libraries regarding water-use efficiency, the water cycle, and other water related concepts.

Proposed 2016/2017 Budget, Line 6 ($500 less than the 2015/2016 Budget)

Line six covers all the activities, educational items, and community events in which the District Staff, and Board members participate. A detailed list of those events and expenses is included in Attachments C and D

This category also includes tours for Scout's, Brownie Troops, Robbin's Nest preschool, and promotional items for community events attended by Directors.

Proposed 2016/2017 Budget, Line 7 (Same amount as 2015/2016 Budget)

Line seven, also part of the required BMP's includes the costs associated with water conservation classes. The last six years, the District has been able to offer free classes through Los Angeles County Smart Gardening Program. These classes are well-attended, although not strictly CVWD residents. In addition staff is planning on adding other classes in coordination with Glendale Water and Power for the 2106/2017 Fiscal Year.

Proposed 2016/2017 Budget, Line 8 ($3,000 less than the 2015/2016 Budget)

Line eight, the turf removal booklet has been eliminated from the proposed budget. The overwhelming response to the turf removal program did not warrant the expense. Drought Tolerant plant information is contained on the District's website and before and after example photos with Ms. Bellissimo.

Proposed 2016/2017 Budget, Line 9 ($7,000 less than the 2015/2016 Budget)

Line nine is for use with any community projects, which includes costs for use of the District generator(s). In the past, these funds have been used to support scout projects, and community projects submitted for Board approval. This line has been substantially reduced as the number of requests has sharply declined and labor for community events is now included in line 6.

Proposed 2016/2017 Budget, Line 10 ($2,500 less than the 2015/2016 Budget)

Line ten (advertising). Due to the decrease in water use, the District has not pursued many paid publications this fiscal year and anticipates that the same will be true for the 2016/2017 fiscal year

Proposed 2016/2017 Budget, Line 11 (New Program)

Line eleven is a new line item, Weather Based Irrigation Controller (WBIC) Direct install Program.

Irrigation demand is the single largest end-use of water in the urban sector in California. Improving irrigation efficiency is perhaps the single most important way for the District to motivate customers towards efficient water use in the coming years. Smart controllers (commonly referred to as ET controllers, and weather-based irrigation controllers (WBICS)), are the advanced technology behind irrigation controllers which utilizes prevailing weather conditions, current and historic evapotranspiration, rain gauging, and other relevant factors to adapt water applications to meet the actual needs of plants.

In 2006 and 2007, the District participated in a state funded smart controller exchange program. Approximately 500 Weathermatic smart controllers were distributed to CVWD customers. Water usage data prior to installation and three years after installation was collected and provided to the State for a regional analysis of actual water savings. The average water savings reported for the Southern California program (based on the participating 29 agencies) was 41% reduction from the 12-24 readings prior to installation. The range of savings varied from 2% to 86% per individual site. Water agencies who calculated their own individual data reported lower overall numbers on water savings ranging from an average of 25% to 35%.

The most important thing to consider when doing a smart controller program is to ensure that the device is installed and programmed properly. The easiest way to ensure this happens is a direct install program. Simply put, it is a turnkey program, where an assigned vendor takes the selected ET controller to the customer's house, installs and programs the device, and verifies that it is working correctly. In essence this program becomes "hard water savings" in which user error is mostly mitigated.

I have added a line item to the water conservation budget in the amount of $15,000.00 to run a smart controller exchange program. To make funds available and not incur a budget increase, other budget line items have been reduced. The budgeted amount is reflective of the maximum price of a direct install program that would encompass approximately 100 controllers purchased and installed. Metropolitan Water District of Southern California has agreed to co-fund the program at $80.00 per controller. Customers would be required to pay to participate in this program.

Perspective targeted residential-use customers (using greater than 50 units per billing cycle) will be contacted through a direct mail requesting a response if interested. Customers wanting to participate in the program would have met certain criteria.

Prepared & Submitted by:

CJScott

Christy J. Scott

Attachments:

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Proposed 2016 / 2017 Water Conservation Budget

		Budget 2013/2014	***Budget 2014/2015***	**Budget 2015/2016**	**Spent To Date 2015/2016**	**Budget Proposed 2016/2017**
1	Supplemental Rebates for Washers	$5,000.00	$5,000.00	$2,500.00	$1,350.00	$2,500.00
2	Supplemental Rebates for Toilets	$10,000.00	$10,000.00	$2,500.00		$2,500.00
3	Water Audits	$6,000.00	$12,000.00	$5,000.00	$875.00	$4,000.00
4	Turf Replacement Program	$35,000.00	$110,000.00	$35,000.00	$35,000.00	$35,000.00
5	School Programs including assemblies, books, educational materials *	$8,750.00	$9,250.00	$9,000.00	$4,345.00	$8,000.00
6	Water-Use Efficiency Materials, Community Acitvities, Booth and Registration Costs, Supplies and Promotional items	$27,000.00	$24,500.00	$25,500.00	$23,931.10	$25,000.00
7	Water Use Efficiency Classes *	$5,000.00	$5,000.00	$2,500.00	$76.48	$2,500.00
8	Turf Rebate Booklet	$3,250.00	$3,250.00	$3,000.00	$0.00	
9	Community Projects	$15,000.00	$20,000.00	$12,000.00	$132.00	$5,000.00
10	Advertising	$5,000.00	$0.00	$5,000.00	$0.00	$2,500.00
11	WBIC - Direct Install Program					$15,000.00
	Totals >>>>	***$ 120,000.00***	***$ 199,000.00***	**$ 102,000.00**	**$ 65,709.58**	**$ 102,000.00**

Residential Water Use Survey

Provided by Crescenta Valley Water District

Jan 8, 2016

Jansen Lashley- Haynes
2540 Los Amigos St
La Crescenta CA, 91214
Telephone Number: 626-840-1827
Water Account No.: 030760-000

Survey Conducted On:	1/8/2016
Year Home Built:	1954
No. of Residents:	3
Water Meter Reading:	N/A
Meter Leak Detected:	Yes ☐ No ☑
Leak Flow (gal/month):	0

Dear Customer:

Crescenta Valley Water District recently conducted a Residential Water Use Survey of your home as part of the District's ongoing efforts to improve water use efficiency. WaterWise Consulting, Inc., an independent consulting firm, conducted this survey and hereby submits this report. This report includes recommendations for improving water use efficiency, which could lead to a potential reduction of your water bill. According to our findings, implementation of the enclosed recommendations may provide the following potential water savings:

Areas Surveyed in Residence	Potential Annual Water Savings	
	Billing Units	Gallons
1. Leak in Residence	0	0
2. Bathroom Water Use	45	45,041
3. Kitchen Water Use	11	11,782
4. Laundry Water use	4	4,160
5. Swimming Pool Water Use	0	0
6. Landscape Irrigation Water Use	63	63,332
Total Potential Annual Water Savings	**123**	**124,315**

One billing unit is equal to 1,000 gallons

Implementing the recommended changes and improvements are estimated to save you approximately $ **567.03** annually. The following pages provide a summary of the areas surveyed in your residence. Thank you for participating in this water use survey.

If you have any questions about this survey or the recommendations provided, please contact Natalie Bellissimo at (818) 248-3925 Ext 4107 or via e-mail at nbellissimo@cvwd.com

Thank you,

Water Survey Team
WaterWise Consulting, Inc.

Indoor Water Use

Typically, indoor water use accounts for approximately 40% of the total water used in a residence. Of the total water used indoors, more than half is used in the bathroom. This includes water used for toilets, showers, and faucets. There is a potential for significant water savings for indoor water use, especially if your home has fixtures that were manufactured or installed prior to 1994. Newer fixtures are more water efficient, and will help you conserve water with every use.

Bathroom Water Use

Toilets — Toilets typically account for one-third of total indoor water use. Older toilet models flush at a volume of 3.5 gallons per flush (gpf) or greater. High Efficiency Toilets (HETs) flush at a volume of 1.28 gpf or less.

Number of toilets at this residence:	2
Number of **Non Conserving** toilets:	0
Average volume of **Non Conserving** toilets:	1.6

Toilet leak detected: Yes ☐ No ☑

Number of toilet leaks detected: 0

Water Savings with Water Conserving Toilets: **2,102**

High Efficiency Toilet (HET)

Showerheads — Water use from showers and baths account for about 20% of the water used indoors. Non-efficient showerheads have flow rates as high as 5 gallons per minute (gpm). New low-flow showerhead models offer a low-flow rate of 2.0 gpm or less.

Number of showerheads at this residence:	2
Number of **Non Conserving** showerheads:	2
Average flow of **Non Conserving** showerheads (gpm):	2.5
Current average length of shower (minutes):	10
Suggested length of shower (minutes):	5
Number of showers per week per person:	7

Water Savings with Low-Flow Showerheads: **25,200**

Low-Flow Showerhead

Bathroom Faucets—Faucets without aerators typically use more than 4 gallons of water per minute. Installing low-flow faucet aerators can reduce water use to about 1.0 gallon per minute (gpm) or less.

Number of bathroom faucets at this residence:	2
Number of **Non Conserving** bathroom faucets:	2
Average flow of **Non Conserving** faucets (gal/min):	1.5

Water Savings with Low-Flow Faucet Aerators: **17,739**

Low-Flow Faucet Aerator

Note: Water savings figures are in gallons per year

Kitchen Water Use

Kitchen Faucet — Faucets without aerators typically use more than 4 gallons of water per minute. Installing low-flow kitchen faucet aerators can reduce water use to 1.5 gallons per minute (gpm) or less.


Kitchen Faucet Aerator

Number of kitchen faucets in this residence: 1

Number of **Non Conserving** kitchen faucets: 1

Average flow rate of **Non Conserving** faucets (gpm): 2.5

Water Savings with Kitchen Faucet Aerator: **8,870**

Dishwasher — Older, non-efficient dishwashers use between 12 and 15 gallons of water for every load. High efficiency, Energy Star models use approximately 7 gallons of water per load and also provide significant energy savings.


High Efficiency Dishwasher

Dishwasher make/model: *Frigidaire*

Efficient Dishwasher: Yes ☐ No ☑

Pre-rinse dishes: Yes ☑ No ☐

Existing dishwasher capacity in gallons: 15

Dishwasher loads per week: 7

Water Savings with High Efficiency Dishwasher: **2,912**

Laundry Water Use

Clothes Washer—Older clothes washer models can use up to 40 gallons of water for every load. High efficiency clothes washers use approximately 15 gallons or less per load. High efficiency models also help save energy, by reducing the volume of hot water used, and reducing drying times.


High Efficiency Clothes Washer

Clothes Washer make/model: *Kenmore*

Existing clothes washer capacity in gallons: 35

Clothes washer loads per week: 4

Water Savings with High Efficiency Clothes Washer: **4,160**

Swimming Pool Water Use

Swimming Pool—Evaporation of water from a swimming pool is significant in the summer months. A pool cover is recommended to reduce the amount of water lost to evaporation. Pool covers may also help save energy by reducing heat loss, and reducing costs required for chemicals used in refill water. Please note, it is usually recommended to drain and refill a pool only once every three years, or less frequently.

Does this residence have a pool: Yes ☐ No ☑

Does pool have cover: Yes ☐ No ☑

How often is pool drained and refilled (years): N/A

Pool Depth (ft): N/A

Pool Surface Area ft^2: N/A

Pool Volume (gallons): N/A

Water Savings with Pool Cover & 3 yr. Refill Rate: **N/A**

Note: Water savings figures are in gallons per year

Landscape Irrigation Water Use

General Landscape Information

Total Landscape Area (ft²): 5,603

Overall Plant Type:
- All Lawn ☐
- Mostly Lawn ☑
- Equal Lawn / Planter ☐
- Mostly Planter ☐
- All Planter ☐

Type of Soil:
- Clay ☐
- Clay Loam ☑
- Loam ☐
- Sandy Loam ☐
- Sandy ☐

Type of Irrigation:
- Automatic System ☑
- Manual System ☐
- Hand Watering ☐
- No Irrigated Landscape ☐
- Weather Based Controller: ☐

Estimated Annual Landscape Water Need: 126,664 Gallons or 126 KGAL Billing Units

Estimated water need calculated based on landscape area, general plant type, and local weather conditions.

Irrigation System Inspection

Controller Model: *Weather Master* **No. Stations:** *4*

Current Watering Schedule:

Program A:	*Station 1: 17 minutes*
Start Time: N/A	*Station 2: 15 minutes*
Days: 3 Days per week	*Station 3: 15 minutes*

Irrigation Stations Checked

Plant Type:	1	2	3	4	5	6	7	8	9	10	11	12
Cool Season Lawn												
Warm Season Lawn	✔	✔	✔									
Medium Water Use												
Low Water Use												
Very Low Water Use												
System Type:	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**
Spray Heads												
Rotor or Impact	✔	✔	✔									
Bubblers												
Drip/Micro-Spray												
Stream Sprays												
System Problems:	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**
Broken Sprinklers												
Overspray		✔										
Interference												
Tilted Sprinklers												
Mixed Equipment												
Pressure Too High												
Pressure Too Low												
Low or Sunken Heads												
Clogged Heads												

Refer to page 6 of the report for a description of each system problem listed.

Watering Schedule

1. Re-program your timer each month using your Watering Schedule as a guide.
2. Please note that Water Conservation Orange Alert is currently in effect. Watering is limited to two (2) days of the week, before 9:00 a.m. and after 5:00 pm. For more information, please review the alert flyer attached to this report.
3. **The watering schedule below is for representative stations of your landscape.** You may use the numbers provided as a guide for other stations watering similar plant types with the same type of irrigation system.

Watering Schedule for Representative Stations:

Station No: 1,2,3 **Plant Type:** Cool Season Turf **System:** Stream Rotor

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Minutes of Irrigation per Cycle	9	9	7	9	9	9	9	8	7	6	9	9
Cyles per Day	1	1	1	2	2	3	3	3	3	2	1	1
Days per Week	2	2	2	2	2	2	2	2	2	2	2	2

Station No: **Plant Type:** **System:**

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Minutes of Irrigation per Cycle												
Cyles per Day												
Days per Week												

Station No: **Plant Type:** **System:**

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Minutes of Irrigation per Cycle												
Cyles per Day												
Days per Week												

*Note: Suggested days per week are based on current water restrictions. Please visit www.CVWD.com for up-to-date drought information and current water restrictions.

Landscape & Irrigation Recommendations

Landscape Recommendations:

- Convert unused lawn areas to low water use plants ☑
- Reduce the overall size of your landscape ☑
- Separate lawn from shrub and tree irrigation zones ☐
- Sunny and shady areas must be on separate zones ☐
- Install 2-4 inches of mulch on shrub & tree planters ☑

Irrigation System Recommendations:

- Implement suggested watering guidelines ☑
- Fix irrigation system problems listed on page ☐
- Install a Weather Based Irrigation Controller ☑
- Convert spray zones in planters to drip irrigation ☑
- Retrofit spray zones in lawn to rotating nozzles ☑

Potential for Water Savings in Landscape Irrigation is:

☐ None (0%) Minor (1% -10%) = ☐ % Significant (11% -20%) = ☐ % Major (21% - 30%) = ☑ %

Smart Controller Recommended: Yes ☑ No ☐

Estimated Water Savings with Implementation of Recommendations: 63,332 **Gallons per Year**

Additional Notes:

For significant water savings, consider replacing unused lawn areas with low water use planter areas and reducing irrigation runtimes to meet with conservation ordinances. For ideas of what plants to use in place of turf please go to www.bewaterwise.com and click on garden spot. This page also contains useful information on other water saving practices.

Glossary of Terms

Broken Sprinkler Heads or Lateral Pipes: a broken sprinkler head or lateral pipe wastes a significant amount of water. Fix or replace all broken sprinklers and lateral pipes.

Overspray: irrigation water that lands on sidewalks and driveways is wasted and creates other problems, such as runoff and deterioration of pavement. All sprinkler types can be adjusted to fit the area being watered.

Spray Interference from Plants and Objects: when the spray or stream of water from the sprinklers is blocked, this may create brown spots in lawn and may deteriorate plant health. Spray interference also creates runoff and erosion problems near the sprinkler head. Make sure there is no plant or object interfering with the sprinkler spray or stream.

Tilted Sprinkler Heads: a tilted sprinkler head will not deliver the water evenly. Some areas will get too much water, while other areas may not get enough. Make sure the sprinkler heads are vertical when watering non-sloping areas.

Mixed Equipment Under the Same Valve: mixing spray head sprinklers and rotor sprinklers is not acceptable. Rotors and sprays have different application rates. A spray head delivers more water over an area compared to the rotor head system.

Pressure Too High: misting is a result of high pressure which leads to water waste due to wind drift. Install a pressure regulator for each valve or install one main pressure regulator for all valves with this problem.

Pressure Too Low: Low pressure is a problem common in rotor type systems. If you have this problem, you may have to change sprinkler nozzles to a smaller size or have fewer sprinklers running at the same time.

Low or Sunken Sprinkler Heads: low or sunken sprinkler heads lower the performance of the system. The problem may be occurring because of a short sprinkler pop-up height. Minimum pop-up height for sprinklers watering lawn is 4 inches, especially when watering higher-growing grasses like tall fescue.

Clogged Sprinkler Nozzles: clogging is common in spray heads. Clogging may occur at the orifice where water comes out or at the filter below the nozzle. Clogged heads create brown spots in lawns. In extreme cases, clogged heads become plugged completely. Clean or replace clogged sprinkler nozzles.

Smart Controller: a self adjusting controller that changes minutes and days of irrigation to correspond with changing weather patterns. It's important to have a well functioning irrigation system in order for a Smart Controller to be effective.

WATER CONSERVATION
ORANGE ALERT

ORANGE ALERT is defined as a Rationing Conservation Alert.

In response to Governor Jerry Brown's Executive Order to implement water use reduction during this serious drought, Crescenta Valley Water District is mandated by the State Water Board to achieve a 24% reduction in water use.

Crescenta Valley Water District Water Conservation Ordinances require that customers minimize indoor water use and severely limit outdoor water use as follows:

- Landscape irrigation is limited to two (2) days per week, **Tuesdays and Saturdays before 9:00AM and after 5:00PM.**
- Hand watering of potted plants and vegetable gardens are excluded from the time limitations.
- The draining and refilling of pools is prohibited unless mandated by Federal, State or local health codes. The District strongly urges that a pool cover be used to prevent evaporation and thereby reducing the frequency of refilling required to prevent equipment failure.
- Vehicle washing is permitted only when using a bucket and quick rinses with a hose using a positive shut-off nozzle.
- Leaks must be repaired within 48 hours after customer discovers or is notified by the District of the leak.

In addition to the above, the following regulations are always in effect:

- Hose washing of any hardscaped areas is prohibited.
- Use of water for any purpose which results in overspray and runoff onto hardscapes is prohibited.
- No watering, sprinkling or irrigating on days when it is raining or the wind is blowing hard enough to cause overspray.

The District maintains a program for residents to report waste of water within the District. Use the anonymous online form on the District website, www.cvwd.com, or call the dedicated phone line, 818-248-3897. All reported wastes of water are followed up on by District personnel.

CVWD

CRESCENTA VALLEY WATER DISTRICT
2700 Foothill Blvd. La Crescenta, CA 91214
818-248-3925

INDOORS:

- Shorten your shower by two minutes and save up to 5 gallons
- Turn off the water when brushing your teeth or shaving and save 2 gallons per minute
- Wash only full loads of dishes and clothes and save between 15 and 50 gallons per load
- Check faucets and pipes for leaks and save up to 20 gallons a day for every leak you fix
- Check toilets for leaks and save 600 gallons per month. Stop by the District office and pick up toilet leak detection tablets
- Install a low-flow shower head and save 15 gallons per shower
- Install a faucet aerator and save 90 gallons per month
- Capture tap water and water from your shower in a bucket while waiting for the water to warm up, and use the water for house plants or your garden

OUTDOORS:

- Install a smart sprinkler controller and save up to 40 gallons a day
- Use a broom to clean hardscaped areas
- Mulch, mulch, mulch around plants – saves hundreds of gallons per year as it aids in reducing evaporation
- Check your sprinkler system for leaks, broken sprinkler heads, and overspray and save 500 gallons per month
- Let your grass grow longer, 2 to 3 inches longer than usual. The longer grass helps keep the soil cooler and helps to retain water
- Better yet, replace your existing lawn, ask us how. Plant drought tolerant or native plants, in addition to designing with permeable paving and get a rebate!

COMMUNITY EVENTS 2016

Below is a list of community events in which the District sponsors or participates:

	EVENT	DATE	Apprx. Costs	Labor
1	Gardening / Compost Classes (Glenwood Plant)	4 per year	$600.00	$800.00
2	School Assemblies	6 per year	$3,600.00	
3	Scouts/Nursery School, plant tours, Science Fairs (At District)	7 per year	$1,575.00	
4	Home Town Fair (Booth/Table)	April	$5,000.00	$3,200.00
5	Special Olympics (water)	April	$50.00	$50.00
6	Foothills Relay for Life (generator and water)	April	$300.00	$150.00
7	Prom Plus (water)	May	$300.00	
8	Taste of Montrose (generator)	May	$60.00	$150.00
9	Memorial Day Service (chairs)	May		$150.00
10	National Night Out (Glenwood Plant)	August	$2,000.00	$675.00
11	Rain Barrel Event (Descanso)	September	$1,575.00	$500.00
12	Chamber Mixers?			
13	Events where we supply give-aways for Board members	Varies	$600.00	
14	Taste of Foothills (generator)	Nov	60.00	$150.00
15	Christmas Parade (generator)	Dec	$60.00	$150.00
			$15,780.00	**$5,975.00**

G:Mgmt: Community: Christy Reference only 2016

Community Events

2016

Month	Event	Comments	SUPPLIES COSTS	LABOR COSTS
January	**INSTALLATION LUNCHEON**	$35.00 per person		
	Chevy Chase Country Club			
March	**DAY AT THE RACES**	$25.00 per person		
	Santa Anita Racetrack, 11 am,	Lunch and betting package		
	Fundraiser with the Sheriff Support Group			
	SMART-A-THON			
	Verdugo Hills Hospital			
April	**HOMETOWN COUNTRY FAIR** **CV Park**		$5,000.00	$3,200.00
	Special Olympics		$50.00	$50.00
	FOOTHILLS RELAY FOR LIFE	District Supplies Generator	$300.00	$150.00
	Clark Magnet High School			
May	**Earth Day**			
	TASTE OF MONTROSE	District Supplies Generator	$60.00	$150.00
	CHAMBER MIXER	Not included in totals		
	Glenwood Water Treatment Plant			
	MEMORIAL DAY SERVICE	District usually Supplies Chairs		$150.00
	Montrose and Honolulu Avenues			
	PROM PLUS	The District supplies Water	$300.00	
	Crescenta / Canada YMCA			
July	**GOLF TOURNAMENT**	$100.00 sponsorship		
	Verdugo Hills Golf Course			
	CV FIREWORKS SHOW CV Fireworks Assoc.			
August	**NATIONAL NIGHT OUT**		$2,000.00	$675.00
	Glenwood Water Treatment Plant			

Community Events
2016

Month	Event	Comments	SUPPLIES COSTS	LABOR COSTS
September	Rain Barrel Event	Descanso Gardens	$1,575.00	$500.00
	FOOTHILLS COMMUNITY BUSINESS EXPO			
	Verdugo Hills Hospital			
October	**CV TOWN COUNCIL PANCAKE BREAKFAST**	Board / Management Usually Attends		
	SHERIFF OPEN HOUSE			
	OKTOBERFEST			
	(Montrose Chamber)			
	FOOTHILL COMMUNITY CLEAN UP DAY (Committee for Clean Beautiful Glendale)	Board / Management Usually Attends		
November	**VETERAN'S DAY SERVICE**	Board / Management Usually Attends		
	Two Strike Park (American Legion & VFW)	(Chairs)		
	RECOGNITION BANQUET	$45.00 per person		
	Nomination Form FREE			
	TASTE OF THE FOOTHILLS Marketplace Shopping	District Supplies Generator	$60.00	$150.00
December	**MONTROSE CHRISTMAS PARADE**	District Supplies Generator	$60.00	$150.00
The District usually participates in this event				
The Board or Managment usually attends				
The District donates use of District property.				
			$9,405.00	**$5,175.00**
additional District events		Compost classes	$600.00	$800.00
		School Assemblies	$3,600.00	
		Scouts/Nursery School,	$1,575.00	
		Board Attended Events	$600.00	
		Grand Totals	**$15,780.00**	**$5,975.00**

LOCAL / CALIFORNIA

Environmental group gives California mixed marks for drought management

The Los Angeles River flows under the Anaheim Street bridge in Long Beach. (Brian van der Brug / Los Angeles Times)

By **Matt Stevens** · **Contact Reporter**

DECEMBER 14, 2015, 7:07 PM

More than four years into a drought, California's efforts to manage the crisis have produced mixed results, according to a report card issued Monday by a leading environmental nonprofit organization.

The state received high marks from the Natural Resources Defense Council for its urban conservation and water recycling but performed poorly in areas such as stormwater capture and restoring the San Francisco Bay Delta.

"The state is making decent strides in some areas, while completely falling down on the job in others," said Kate Poole, the report card's lead author and senior attorney for the council's water program. "The bottom line is that we can take steps to create enough water for the residential, business and agricultural needs of California, while protecting the healthy environment that Californians deserve."

The council used a point system to issue the state letter grades across five categories. Each category, they said, represents a strategy the state can use to "achieve a sustainable and drought-resilient water future." The group gave California a B, B-minus, two Ds and an F.

Felicia Marcus, chairwoman of the State Water Resources Control Board, called the grades "a little disappointing."

"We've done more in the past two or three years than we have in the past two or three decades on water in California," she said. "It's nothing to sneeze at."

California got its highest mark in urban water conservation. Since June, people living in cities and towns across the state have cumulatively reduced their water usage more than 25% compared with 2013, meeting a requirement set by Gov. Jerry Brown.

The state received a B-minus for its efforts to recycle and reuse water. The report praised the state for increasing funding for water recycling and adopting regulations to help ensure that groundwater can be safely replenished with recycled water.

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But the state got Ds for water conservation in the agricultural sector and for stormwater capture and reuse. It got its lowest grade — an F — for what the Natural Resources Defense Council said was poor management of the delta ecosystem.

"We're looking at how the state did and hoping this can serve as a sort of interim progress report," Poole said. "If my kids come home with two Ds and an F, they're going to be spending a lot more time on those subjects going forward. That's what we hope the state will do here."

Although agricultural water usage is about four times greater than urban use, the state "has not set goals or mandatory requirements" for agricultural conservation, the report said, and has not enforced existing laws that could improve the savings.

Meanwhile, capturing runoff from storms could simultaneously increase water supply and reduce water pollution, the report said. The state is not on track to meet its stormwater capture goals, and the process of developing a long-term vision for stormwater management has been slow and short on specifics, according to the report's authors.

Marcus said many farmers have been "feeling the brunt of the drought for ... years," and would argue that the water board has been "hurling water at fish."

State regulators "totally agree with importance of stormwater," Marcus added, but there is a disagreement over which "tactics" to use to improve the situation.

The council was most alarmed, though, by the condition of the San Francisco Bay Delta. It called the current proposal for two new water diversion tunnels "environmentally harmful" and pointed to the ongoing struggle of the delta smelt as an indicator of the watershed's poor health.

"Rather than taking steps to ease the impacts of the drought on the estuary and its imperiled fisheries, the state has repeatedly implemented actions during the drought that have made conditions worse," the report said.

Marcus said she could not comment on some aspects of the criticism, such as the tunnels, because she reviews related appeals and permits. But she said "a lot of things are easier said than done."

As for what grade she would give state water regulators, Marcus said: "I'd give us an A for effort and I'd probably give us a B for the drought.... My grandmother would say never give yourself an A — it's bad luck."

matt.stevens@latimes.com

LOCAL / CALIFORNIA

When it comes to saving water, Southern Californians are tapped out — or are they?

Annie Costanzo waters plants from a rain barrel in the yard at her Miracle Mile home. (Kent Nishimura / Los Angeles Times)

By **Taylor Goldenstein · Contact Reporter**

FEBRUARY 10, 2016, 2:30 AM

After months of responding to calls to save water, Southern Californians say they've hit a wall.

Nearly 9 in 10 respondents say they strongly or somewhat agree that "I've already cut back on water use at my home as much as I can" and "There's not much more I can do to save water," according to a recent survey commissioned by the Metropolitan Water District of Southern California.

A majority also said they are willing to decrease their consumption.

"They know what they're doing [to conserve], and they believe it's everything, but when you start giving them other ideas ... they realize they're not," said Cynthia Kurtz, an MWD board member. "So drought fatigue, in a sense, means they've run out of ideas, and we need to keep reinforcing that there are other things they can do."

Interest in the drought surged last spring after Gov. Jerry Brown imposed California's first mandatory reduction in water use. Residents ripped out their lawns in record numbers and met the 25% mandate each month from June to September.

But recently, statewide water conservation has lagged. Californians failed to meet the 25% mandate in October, November and December, though the cumulative savings remain on target.

Many Southern Californians have hoped that a strong El Niño would bring above-average rains and relieve some of the pressure. So far, that hasn't panned out, and rainfall in the region is still below average.

The MWD hired EMC Research to conduct the survey, which measured people's attitudes and awareness of the drought. The researchers called about 1,000 people within the MWD service area during two weeks in December and also conducted an online survey that 800 people took during the same period. A summary of the results was released Monday.

The survey found that 62% of respondents said they "strongly agree" that they had saved as much water as they could, while 26% "somewhat agree."

Kurtz said the agency will use the survey results as a guide for how to adapt future outreach to changing attitudes.

One way to combat so-called drought fatigue, Kurtz said, is to express gratitude for the conservation efforts made so far.

"People get tired of being told they have to do more, they have to do more, so as part of that message, we also have to thank them for what they have done," Kurtz said, "and then promptly push them to do more."

Felicia Marcus, chairwoman of the State Water Resources Control Board, said she wasn't disappointed by the results of the survey because Southern Californians have done well so far with saving water.

"I would think a significant chunk of those folks probably really have done a lot, and there may be others that probably don't realize there's more that they could do, so it's an education and engagement challenge," Marcus said.

Tracy Quinn, senior policy analyst at the Natural Resources Defense Council, agreed that there is an education gap and said it ought to be of concern if people think there is no more to be done to conserve water at home.

"It's clear that there's a lot more we could be doing," Quinn said, adding that residents continue to use drinking water "outside at a level that isn't really sustainable in this sort of new normal California climate."

Quinn said respondents might have been focused on ways they have changed their behavior, rather than on more concrete steps such as replacing appliances with high-efficiency products.

"There's no act too small," Quinn said. "Every drop really does count in this drought emergency."

taylor.goldenstein@latimes.com

Twitter: @taygoldenstein

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A version of this article appeared in print on February 10, 2016, in the News section of the Los Angeles Times with the headline "Are water savers tapped out? - A survey shows high levels of 'drought fatigue,' but officials say more can be done." — Today's paper | Subscribe

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Science

California water regulators suggest slight easing of conservation requirements

Much of San Diego County could benefit from the easing of water-conservation rules because of the desalination plant in Carlsbad, shown here in September. (Lenny Ignelzi / Associated Press)

By **Bettina Boxall · Contact Reporter**

DECEMBER 21, 2015, 7:00 PM

As they look to next year, state regulators are suggesting a slight easing of the conservation requirements that slashed urban water use across California.

In a draft released Monday, the staff of the State Water Resources Control Board recommended a few changes to the 2014 drought order, which mandated a 25% cut. The effect of the modifications, which the board will vote on in February, would be to lower that number to 22%.

Although cities and towns have on average exceeded the required savings this year, a number of water districts complained that their individual targets failed to take into account regional climate or other factors.

The staff recommendations represent a nod to some of those objections, while rejecting others.

"We're being cautious," said Max Gomberg, the board's climate and conservation manager. "We're recognizing that there are concerns about equity that were raised, and we're addressing them with these modest adjustments. But we're maintaining a strong statewide conservation level."

Under the proposed changes, regional climate would be considered, as well as local growth and the use of desalinated seawater and recycled water in drinking supplies. Together, the staff says the credits will trim statewide savings by 3 percentage points, lowering the conservation target to 22%.

The regions that would most benefit from the revisions are hot inland and desert areas; Orange County, which replenishes its groundwater supplies with recycled water; and much of San Diego County, which is starting operation of a seawater desalination plant in Carlsbad.

But a water district's conservation target would drop by no more than four percentage points.

The urban cuts imposed this year were the first in state history. Under an executive order issued by Gov. Jerry Brown in the spring, the board set individual water savings goals for cities that ranged from 4% to 36%. Some districts have struggled to meet those numbers, but the statewide savings since the order took effect in June have amounted to a 27% decline compared with 2013 levels.

Depending on what the winter brings, the board this spring could revisit the issue and further modify the conservation mandate, which is to remain until the end of next October.

"If we really do get a strong El Niño ... I could see reducing it or even potentially getting rid of it," Gomberg said. "But conversely, if El Niño doesn't show up and we're in year five and things are as bad or worse than last year, it could go up from 22%."

The bulk of this year's savings have come through reduced outdoor use. Water districts restricted landscape sprinkling, rolled out hundreds of millions of dollars in turf removal rebates, increased rates and in some instances fined flagrant water users.

But as use declined, so did utility revenue. And districts complained that the targets failed to factor in past conservation efforts, blazing inland temperatures, local population growth or alternative water sources.

The board staff agreed with only some of those points, denying, among other things, requests to subtract some groundwater supplies from local use.

The board, which is taking public comment on the staff report, will issue a draft regulation in mid-January and vote on it in February.

bettina.boxall@latimes.com

Twitter: @boxall

A version of this article appeared in print on December 22, 2015, in the News section of the Los Angeles Times with the headline "Easing state's water limits - Regulators suggest adjusting mandatory usage reduction to 22% from 25%." — Today's paper | Subscribe

This article is related to: Environmental Issues

LOCAL / CALIFORNIA

MWD proposes slashing its conservation budget; turf removal rebates could disappear

Workers install artificial grass in Pacific Palisades. Despite strong popular demand, the MWD might not have a turf rebate program in the next fiscal year. (Luis Sinco / Los Angeles Times)

By **Taylor Goldenstein · Contact Reporter**

FEBRUARY 15, 2016, 3:00 AM

When Gov. Jerry Brown ordered a 25% cut in urban water use last year — and singled out lawns as a prime target — Southern Californians began replacing turf in record numbers, motivated in part by cash rebates.

Marveling at the success of the program, Metropolitan Water District of Southern California officials quickly went all in, boosting the turf rebate budget to $340 million.

In the upcoming fiscal year, however, there may not be an MWD-funded turf removal program at all.

In a proposed budget for the next two fiscal years, agency staffers recommended $59 million for conservation programs — $27 million next year and $32 million the year after that.

That allocation would probably be used to fund rebates for water-conserving devices such as high-efficiency toilets and washing machines, said Deven Upadhyay, an MWD manager.

As of now, there are no plans to reopen a turf rebate program, he said. It would be up to the MWD board whether to once again reimburse customers for tearing out their lawns.

"It was a one-time thing to try to ramp up attention on having more drought-tolerant landscapes while we're in the drought," Upadhyay said. "I don't think it was ever envisioned as we would be able to do that every year from here on out."

The MWD in total set aside $450 million this fiscal year for rebates, including $110 million for water-efficient appliances and devices. Officials expect that about $50 million of the $450 million will be left over because of canceled turf-removal projects.

The unspent funds could be used for future rebate programs, Upadhyay said.

"We're still working through the largest conservation program we've ever done, and anybody's ever done," Upadhyay said. "I think that our investment in conservation has been historic."

Some environmental groups say it's not enough. Tracy Quinn, a policy analyst with the Natural Resources Defense Council, said dropping the turf rebate program would be a "huge missed opportunity."

"With so much uncertainty around our ability to replenish our reservoirs and groundwater basins over the next few years, this is not the time to back off investments in conservation and efficiency," Quinn said, adding that she'd recommend at least $100 million, given the agency's total budget. "We need to front-load those investments now while we have the public's ear."

Water officials have said that with the rebates, they hoped to spark enough interest in turf removal that residents and businesses would eventually decide to do it on their own, even without reimbursement.

But Bruce Reznik, executive director of environmental nonprofit L.A. Waterkeeper, said that's unrealistic, at least now. Reznik said he was "appalled" that the MWD was considering dropping or reducing funding for its turf rebate program.

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"As soon as we have even a modicum of success in conservation, they walk back away from it," he said. "I think that provides a terrible message."

Upadhyay said the MWD wants to evaluate the success of the program before making another big financial commitment.

The proposed budget is being reviewed by the agency's finance and insurance committee and will be sent to the full board in April. The committee will meet again to discuss it Feb. 23.

taylor.goldenstein@latimes.com

Twitter: @taygoldenstein

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A version of this article appeared in print on February 15, 2016, in the News section of the Los Angeles Times with the headline "MWD eyes big cuts in conservation budget - The Southland water agency currently has no plans to reopen its turf removal program, a manager says." — Today's paper | Subscribe

This article is related to: California Drought, Jerry Brown

LOCAL / CALIFORNIA

Water customers in L.A. County foothill cities are asked to tighten taps further

By Sara Cardine

FEBRUARY 20, 2016, 6:00 AM

Water customers in some of Los Angeles County's foothills are being asked to tighten taps further and refrain from watering lawns for as long as 10 days starting Feb. 29 while the Metropolitan Water District of Southern California temporarily closes a La Verne treatment plant for infrastructure upgrades.

During the work period, homes and businesses served by Foothill Municipal Water District's retail agencies — including Crescenta Valley Water and La Cañada Irrigation districts and the Mesa Crest and Valley Water companies — will not receive imported water from the MWD.

The MWD is switching its F.E. Weymouth Filtration Plant from a chloramine-based treatment method to ozonation, in which ozone injected into raw water creates bubbles that carry away pathogens and contaminants, spokesman Bob Muir said.

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To do that, all five of the treatment plants the district maintains must be retrofitted to accommodate newly built ozone facilities.

"It's a more effective way of treating water. It's just an overall better disinfectant for our supplies," Muir said of the switch, part of a $270-million project to fully introduce ozonation in 2017.

For Altadena residents, the temporary shut-off will begin even earlier, Feb. 23, because of additional work being planned for area supply lines, Muir said. The work should be completed by March 10.

With MWD supplies temporarily dried up, retail water agencies must rely on local water and stored supplies to meet demand. Officials are asking customers to help make ends meet during the planned outage by not watering their lawns and reducing indoor use.

As a reminder to save resources while the work is being done, Foothill Municipal Water District will increase the area's conservation status from "orange," indicating a rationing to two irrigation periods a week, to the more critical "red," under which outdoor watering is not allowed.

"We have very limited storage, so we need to be careful," said the Foothill district's general manager, Nina Jazmadarian. "As soon as we feel more comfortable with the supply, we'll change it back to orange."

Muir said he is confident that if people pitch in during the shut-off, there will be no interruptions to local water supplies. Jazmadarian asks customers for their continued patience.

"I know that people are tired of the drought, and we really appreciate everything everyone's done — we've had some great numbers," she said. "This is just a little step more for the 10 days. And then, once we're out of it, back to drought mode."

For more information, call Foothill Municipal Water District at (818) 790-4036, or visit bewaterwise.com for conservation tips.

sara.cardine@latimes.com

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