



# Yucaipa Valley Water District

12770 Second Street, Yucaipa, California 92399 Phone: (909) 797-5117

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## Notice and Agenda of a Regular Meeting of the Board of Directors

Wednesday, March 2, 2016 at 6:00 p.m.

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- I. **CALL TO ORDER** - Pledge of Allegiance
- II. **ROLL CALL**
- III. **PUBLIC COMMENTS** - At this time, members of the public may address the Board of Directors on matters within its jurisdiction. To provide comments on specific agenda items, please complete a speaker's request form and provide the completed form to the Board Secretary prior to the board meeting.
- IV. **CONSENT CALENDAR** - All matters listed under the Consent Calendar are considered by the Board of Directors to be routine and will be enacted in one motion. There will be no discussion of these items prior to the time the board considers the motion unless members of the board, the administrative staff, or the public request specific items to be discussed and/or removed from the Consent Calendar.
  - A. Minutes of Meetings
    - 1. Regular Board Meeting - February 17, 2016
    - 2. Board Workshop - February 23, 2016
- V. **BOARD REPORTS**
  - A. San Gorgonio Pass Regional Water Alliance - February 24, 2016
  - B. Recycled Water Fill Station training Session for Residential Customers - February 29, 2017
  - C. Community Water Meeting - February 29, 2016
  - D. San Gorgonio Pass Water Agency - Special Meeting - February 29, 2016
  - E. Reports by Board Members
- VI. **STAFF REPORT**

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Any person with a disability who requires accommodation in order to participate in this meeting should telephone Tysa Baeumel at (909) 797-5117 at least 48 hours prior to the meeting in order to make a request for a disability-related modification or accommodation.

Materials related to an item on this agenda submitted to the Board of Directors after distribution of the board meeting packet are available for public inspection during normal business hours at the District office located at 12770 Second Street, Yucaipa. Meeting material is also be available on the District's website at [www.yvwd.dst.ca.us](http://www.yvwd.dst.ca.us)

## VII. DISCUSSION ITEMS

- A. Change Order No. 1 and Notice of Completion for the Contract with Weka, Inc. for the Miscellaneous Recycled Pipelines Project [[Director Memorandum No. 16-023 - Page 25 of 112](#)]  
RECOMMENDED ACTION: That the Board approves Change Order No. 1 and authorizes the filing of the Notice of Completion and release of the retention amount of \$21,718.11 thirty-five days after the recorded date.
- B. Change Order No. 1 and Notice of Completion for the Contract with Pacific Hydrotech Corporation for the Construction of Support Structures for the Existing Sewer Bride Crossing Yucaipa Creek [[Director Memorandum No. 16-024 - Page 31 of 112](#)]  
RECOMMENDED ACTION: That the Board approves Change Order No. 1 and authorizes the filing of the Notice of Completion and release of the retention amount of \$24,230.50 thirty-five days after the recorded date.
- C. Consideration of Resolution No. 2016-11 Supporting the Construction of Recycled Water Facilities Associated with the Phase IV-A, IV-b, and IV-C of the Integrated Recycled Water and Drought Preparedness Project for the North Bench, Oak Glen, and Wildwood Areas [[Director Memorandum No. 16-025 - Page 37 of 112](#)]  
RECOMMENDED ACTION: That the Board adopts Resolution No. 2016-11.
- D. Notice Regarding the Preparation of the 2015 Yucaipa Valley Water District Urban Water Management Plan [[Director Memorandum No. 16-026 - Page 48 of 112](#)]  
RECOMMENDED ACTION: No action required at this time.
- E. Notice of Completion for the Contract with J Colon Coatings for the Pipeline Coating Repairs at the Yucaipa Valley Regional Water Filtration Facility - Crystal Creek [[Director Memorandum No. 16-027 - Page 50 of 112](#)]  
RECOMMENDED ACTION: That the Board authorizes the filing of the Notice of Completion and release of the retention amount of \$3,206.25 thirty-five days after the recorded date.
- F. Consideration of Resolution No. 2016-12 Authorizing the General Manager to file a Basin Boundary Modification Request to the Department of Water Resources for the El Casco Basin Pursuant to the Sustainable Groundwater Management Act [[Director Memorandum No. 16-028 - Page 54 of 112](#)]  
RECOMMENDED ACTION: That the Board adopts Resolution No. 2016-12 as presented.
- G. Authorization to Purchase 1,000 Additional Weather Based, Wi-Fi Irrigation Controllers from Skydrop for Residential Water Customers of the Yucaipa Valley Water District [[Director Memorandum No. 16-029 - Page 59 of 112](#)]  
RECOMMENDED ACTION: That the Board authorizes the District staff to: (1) implement the necessary policies, procedures and priorities to distribute weather-based irrigation controllers for residential water customers pursuant to the State Water Resources Control Board Emergency Regulations and related Executive Orders by Governor Brown; (2) contract with Skydrop for the purchase of irrigation controllers and related equipment for the installation of 500 additional controllers; (3) provide regular updates on the status of this water conservation program; and (4) authorize the General Manager to amend or terminate the implementation of this program at any time.

- H. Authorization to Issue a Request for Proposals for Four Multi-Function Digital Copiers [[Director Memorandum No. 16-030 - Page 77 of 112](#)]

RECOMMENDED ACTION: That the Board of Directors Authorizes the District staff to proceed with the issuance of the Request for Proposals.

- I. Discussion Regarding Regional Imported Water Supply Issues, Goals and Solutions in the San Gorgonio Pass Area [[Director Memorandum No. 16-031 - Page 86 of 112](#)]

RECOMMENDED ACTION: Pending

**VIII. DIRECTORS COMMENTS**

**IX. ANNOUNCEMENTS**

- A. March 8, 2016 at 4:00 p.m. - Board Workshop
- B. March 16, 2016 at 6:00 p.m. - Regular Board Meeting
- C. March 23, 2016 at 6:00 p.m. - San Gorgonio Pass Regional Water Resource Alliance at the City of Banning
- D. March 29, 2016 at 4:00 p.m. - Board Workshop
- E. April 6, 2016 at 6:00 p.m. - Regular Board Meeting
- F. April 12, 2016 at 4:00 p.m. - Board Workshop
- G. April 20, 2016 at 6:00 p.m. - Regular Board Meeting
- H. April 26, 2016 at 4:00 p.m. - Board Workshop
- I. April 27, 2016 at 6:00 p.m. - San Gorgonio Pass Regional Water Resource Alliance at the City of Banning

**X. ADJOURNMENT**

# Consent Calendar



Yucaipa Valley Water District



# MINUTES OF A REGULAR BOARD MEETING

February 17, 2016 at 6:00 P.M.

**Directors Present:**

Lonni Granlund, President  
Jay Bogh, Vice President  
Bruce Granlund, Director  
Ken Munoz, Director  
Tom Shalhoub, Director

**Staff Present:**

Joseph Zoba, General Manager  
Jack Nelson, Assistant General Manager  
Jennifer Ares, Water Resource Manager  
Vicky Elisalda, Controller  
John Hull, Public Works Manager  
Brent Anton, Engineering Manager

**Directors Absent:**

None

**Consulting Staff Present:**

David Wysocki, Legal Counsel

**Registered Guests and Others Present:**

Linda Shelton, Customer  
Ralph Monge, Customer  
Leonard Stevenson, San Gorgonio Pass Water Agency  
David Fenn, San Gorgonio Pass Water Agency  
Karen Da Silva, News Mirror

The regular meeting of the Board of Directors of the Yucaipa Valley Water District was called to order by Director Lonni Granlund at 6:00 p.m. at the Administrative Office Building, 12770 Second Street, Yucaipa, California.

CALL TO ORDER

Director Tom Shalhoub led the pledge of allegiance.

FLAG SALUTE

The roll was called and Director Jay Bogh, Director Bruce Granlund, Director Lonni Granlund, Director Ken Munoz, and Director Tom Shalhoub were present.

ROLL CALL

There were no public comments during this portion of the board meeting.

PUBLIC COMMENTS

Director Tom Shalhoub moved to approve the consent calendar and Director Ken Munoz seconded the motion to approve the consent calendar.

CONSENT CALENDAR

- A. Minutes of Meetings
  - 1. Regular Board Meeting - February 3, 2016
  - 2. Board Workshop - February 9, 2016
- B. Payment of Bills
  - 1. Approve/Ratify Invoices for Board Awarded Contracts
  - 2. Ratify General Expenses for January 2016

The motion was approved by the following vote:

Director Jay Bogh - Yes  
Director Bruce Granlund - Yes  
Director Lonni Granlund - Yes  
Director Ken Munoz - Yes  
Director Tom Shalhoub - Yes

Reports by Board Members

- Director Bruce Granlund and Director Tom Shalhoub reported on the meeting of the Beaumont Cherry Valley Water District held on February 10, 2016.
- Director Tom Shalhoub reported on the meeting of the San Geronio Pass Water Agency held on February 16, 2016.

BOARD REPORTS

General Manager Joseph Zoba discussed the following items:

- The Yucaipa Valley Water District reported a 30% reduction in drinking water use to the State Water Resources Control Board consistent with the Emergency Water Conservation Regulations.
- The District is in the process of completing the final steps associated with the recycled water grant for the Calimesa Pipeline with the State Water Resources Control Board. Preliminary information indicates that the District may be eligible for a \$2.4 million grant to fund a portion of the project.

STAFF REPORT

DISCUSSION ITEMS:

Following a staff presentation by Controller Vicky Elisalda, Director Bruce Granlund moved and Director Ken Munoz seconded a motion to receive and file the audited financial statements.

The motion was approved by the following vote:

Director Jay Bogh - Yes  
Director Bruce Granlund - Yes  
Director Lonni Granlund - Yes  
Director Ken Munoz - Yes  
Director Tom Shalhoub - Yes

DM 16-016  
UNAUDITED  
FINANCIAL REPORT  
FOR THE PERIOD  
ENDING ON JANUARY  
31, 2016

Following a staff presentation by Engineering Manager Brent Anton, Director Ken Munoz moved and Director Tom Shalhoub seconded a motion to approve Development Agreement No. 2016-01 as presented.

The motion was approved by the following vote:

Director Jay Bogh - Yes  
Director Bruce Granlund - Yes  
Director Lonni Granlund - Yes  
Director Ken Munoz - Yes  
Director Tom Shalhoub - Yes

DM 16-017  
CONSIDERATION OF  
DEVELOPMENT  
AGREEMENT NO.  
2016-01 TO PROVIDE  
WATER AND SEWER  
FACILITIES AND  
SERVICE TO THE  
PRIVATE  
DEVELOPMENT OF  
TRACT MAP 16783,  
PACIFIC HORIZON  
BUILDERS, INC.

Following a staff presentation by Engineering Manager Brent Anton, Director Bruce Granlund moved and Director Tom Shalhoub seconded a motion to approve Development Agreement No. 2016-02 as presented.

The motion was approved by the following vote:

- Director Jay Bogh - Yes
- Director Bruce Granlund - Yes
- Director Lonni Granlund - Yes
- Director Ken Munoz - Yes
- Director Tom Shalhoub - Yes

Following a staff presentation by Water Resource Manager Jennifer Ares, Director Jay Bogh moved and Director Ken Munoz seconded a motion to adopt Resolution No. 2016-10.

The motion was approved by the following vote:

- Director Jay Bogh - Yes
- Director Bruce Granlund - Yes
- Director Lonni Granlund - Yes
- Director Ken Munoz - Yes
- Director Tom Shalhoub - Yes

Following a staff presentation by General Manager Joseph Zoba, Director Tom Shalhoub moved and Director Bruce Granlund seconded a motion to authorize the District's participation in the Yucaipa Basin Study with the San Bernardino Valley Municipal Water District for a sum not to exceed \$9,596.

The motion was approved by the following vote:

- Director Jay Bogh - Yes
- Director Bruce Granlund - Yes
- Director Lonni Granlund - Yes
- Director Ken Munoz - Yes
- Director Tom Shalhoub - Yes

Following a staff presentation by General Manager Joseph Zoba, Director Jay Bogh moved and Director Ken Munoz seconded a

(ASSESSOR'S  
PARCEL NUMBERS  
318-122-05, 06 & 07)

DM 16-018  
CONSIDERATION OF  
DEVELOPMENT  
AGREEMENT NO.  
2016-02 TO PROVIDE  
SEWER FACILITIES  
AND SERVICE TO THE  
PRIVATE  
DEVELOPMENT OF  
TRACT MAP 17725,  
(ASSESSOR'S  
PARCEL NUMBERS  
319-242-25, 26, 52, 53,  
75, 80, 83 AND 90)

DM 16-019  
ADOPTION OF  
RESOLUTION NO.  
2016-10 ADOPTING AN  
AMENDMENT TO THE  
ENVIRONMENTAL  
IMPACT REPORT AND  
ENVIRONMENTAL  
IMPACT STATEMENT  
FOR THE CALIMESA  
RECYCLED WATER  
CONVEYANCE  
PROJECT

DM 16-020  
PARTICIPATION IN  
THE YUCAIPA BASIN  
INVESTIGATION IN  
CONJUNCTION WITH  
THE SAN  
BERNARDINO VALLEY  
MUNICIPAL WATER  
DISTRICT FOR THE  
PREPARATION OF A  
GROUNDWATER  
RECHARGE WORK  
PLAN

DM 16-021  
DISCUSSION  
REGARDING

motion to schedule a meeting of elected officials from the San Gorgonio Pass area to discuss regional water issues.

REGIONAL IMPORTED  
WATER SUPPLY  
ISSUES, GOALS AND  
SOLUTIONS IN THE  
SAN GORGONIO PASS  
AREA

The motion was approved by the following vote:

- Director Jay Bogh - Yes
- Director Bruce Granlund - Yes
- Director Lonni Granlund - Yes
- Director Ken Munoz - Yes
- Director Tom Shalhoub - Yes

At the board workshop on January 12, 2016, the Board of Directors reviewed and discussed a disputed invoice for construction services completed by the District staff at 8290 Overview Court, Yucaipa [Workshop Memorandum No. 16-009]. Following the discussion, the District staff stated to the customer and the Board of Directors that this item will be presented at the regular board meeting on January 20, 2016 for a final decision.

DM 16-022  
DISCUSSION  
REGARDING A  
DISPUTED INVOICE  
FOR THE  
INSTALLATION OF A 2"  
WATER SERVICE  
PIPELINE AT 8290  
OVERVIEW COURT,  
YUCAIPA - MR. RALPH  
MONGE

At the regular board meeting on January 20, 2016, the Board of Directors reviewed, discussed and considered the issue regarding a disputed invoice for construction services provided by District staff [Director Memorandum No. 16-011]. Following the discussion, Director Bruce Granlund moved and Director Jay Bogh seconded a motion that the Board finds the balance of \$3,804.75 (Invoice No. A-6996) due and payable as presented for the construction related services received by the customer and upheld the assessment of two EDUs for the property. The motion was approved by a majority of the Board of Directors. The customer did not attend the January 20, 2016 board meeting.

The discussion regarding the disputed invoice was agendized at this meeting to provide an opportunity for the customer to provide additional information for consideration by the Board of Directors. District Legal Counsel David Wysocki stated that absent a motion to reconsider the January 20, 2016 Board action, the decision by the Board of Directors approved on January 20, 2016 would remain in effect.

Following a staff presentation by Assistant Manager Jack Nelson, comments by the property owner, and comments by the Board of Directors, Director Tom Shalhoub moved and Director Ken Munoz seconded a motion to reconsider the January 20, 2016 Board action to renegotiate the total cost of the construction services provided by the District staff.

The motion failed by the following vote:

- Director Jay Bogh - No
- Director Bruce Granlund - No
- Director Lonni Granlund - No
- Director Ken Munoz - Yes

Director Tom Shalhoub - Yes

District Legal Counsel David Wysocki then stated that the decision by the Board of Directors on January 20, 2016 that the balance of \$3,804.75 (Invoice No. A-6996) is due and payable as presented for the construction related services received by the customer and upholding the assessment of two EDUs on the property is confirmed as the final decision by the Board of Directors.

There were no comments from the Board of Directors.

Director Lonni Granlund called attention to the announcements listed on the agenda.

The meeting was adjourned at 7:35 p.m.

Respectfully submitted,

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Joseph B. Zoba, Secretary

DIRECTOR  
COMMENTS

ANNOUNCEMENTS

ADJOURNMENT

(Seal)

# MINUTES OF A BOARD WORKSHOP

February 23, 2016 at 4:00 P.M.

## Directors Present:

Lonni Granlund, President  
Jay Bogh, Vice President  
Bruce Granlund, Director  
Tom Shalhoub, Director

## Staff Present:

Joseph Zoba, General Manager  
Brent Anton, Engineering Manager  
John Hull, Public Works Manager  
Bob Wall, Operations Manager  
Kevin King, Operations Manager  
Vicky Elisalda, Controller  
John Wrobel, Regulatory & Environmental Control  
Manager  
Jennifer Ares, Water Resource Manager

## Directors Absent:

Ken Munoz, Director

## Consulting Staff Present:

David Wysocki, Legal Counsel

## Registered Guests and Others Present:

David Duron, Customer  
Richard Siegmund, Customer  
Linda Shelton, Customer  
Leonard Stephenson, San Gorgonio Pass Water Agency

- I. Call to Order - 4:00 p.m.
- II. Public Comments - There were no public comments during this portion of the board workshop.
- III. Staff Report - General Manager Joseph Zoba discussed the following topics:
  - The Yucaipa Valley Water District will be hosting a recycled water fill station training session on Monday, February 29, 2016 at 5:00 pm.
  - The Yucaipa Valley Water District will be hosting a community water meeting on Monday, February 29, 2016 at 6:00 pm.
  - There will be a meeting of retail water suppliers and wholesale water suppliers in the San Gorgonio Pass area on Thursday, March 10, 2016 at 7:00 pm. The meeting will be held at the Beaumont Cherry Valley Water District office in Beaumont.
- IV. Presentations
  - A. Overview of the California Drought and Yucaipa Valley Water District's Action Plan Related to the State Water Resources Control Board Mandatory Restrictions to Achieve a 36% Reduction in Potable Urban Water Use [Workshop Memorandum No. 16-036] - General Manager Joseph Zoba reported on the District's water conservation efforts and the steps taken to achieve the required 36% water conservation goal required by the State Water Resources Control Board. .
  - B. Overview of the Sustainable Groundwater Management Act and Proposed Basin Boundary Revisions [Workshop Memorandum No. 16-037] - General Manager Joseph Zoba provided an overview of changes to the local groundwater basins for sustainable management.

- C. Overview of the Bunker Hill Conjunctive Use Project and a Draft Memorandum of Understanding for the Proposed Project [Workshop Memorandum No. 16-038] - General Manager Joseph Zoba provided information about the proposed Bunker Hill Conjunctive Use Project.
- V. Operational Updates
- A. Overview of Operational Activities in Preparation and Response to the 2016 Winter Storm Events [Workshop Memorandum No. 16-039] - Engineering Manager Brent Anton provided information to the Board of Directors about the sewer bridge support project in Yucaipa Creek.
  - B. Status Report on the Sewer Collection System Monitoring Network [Workshop Memorandum No. 16-040] - Regulatory & Environmental Control Manager John Wrobel provided an update on the installation of sewer collection system monitors.
  - C. Status Report on the Increased Implementation and Distribution of Weather-Based Wi-Fi Irrigation Controllers for Residential Water Customers of the Yucaipa Valley Water District [Workshop Memorandum No. 16-041] - General Manager Joseph Zoba provided an update on the Skydrop irrigation installations throughout the District's service area.
- VI. Capital Improvement Projects
- A. Status Report on the Construction of a 6.0 Million Gallon Drinking Water Reservoir R-12.4 - Calimesa [Workshop Memorandum No. 16-042] - Engineering Manager Brent Anton provided an overview of the Reservoir R-12.4 project construction.
  - B. Status Report on the Digester Cleaning and Cover Replacement Project at the Wochholz Regional Water Recycling Facility [Workshop Memorandum No. 16-043] - Operations Manager Kevin King provided an overview of the digester lid coating project.
  - C. Status Report on the Coating Repairs to the 48" Influent Pipeline at the Yucaipa Valley Regional Water Filtration Facility [Workshop Memorandum No. 16-044] - Operations Manager Bob Wall provided an update on the status of the influent pipeline coating project.
  - D. Status Report on the Installation of New Recycled Water Services and Recycled Water Pipelines throughout the Service Area of the Yucaipa Valley Water District [Workshop Memorandum No. 16-045] - Engineering Manager Brent Anton provided an update on the installation of various recycled water service pipelines throughout the District.
- VII. Administrative Items
- A. Notice Regarding the Preparation of the 2015 Yucaipa Valley Water District Urban Water Management Plan [Workshop Memorandum No. 16-046] - Water Resource Manager Jennifer Ares provided an update on the Urban Water Management Plan.
  - B. Authorization to Solicit Prices for the Purchase of Three Multi-Function Copiers [Workshop Memorandum No. 16-047] - General Manager Joseph Zoba provided an overview of a proposed RFP for the purchase of new copiers.
- VIII. Director Comments
- Director Lonni Granlund reported on the San Gorgonio Pass Water Agency meeting held on February 22, 2016. During the public comment portion of the San Gorgonio Pass Water Agency meeting, Director Granlund invited the San Gorgonio Pass Water Agency Board of Directors to a regional water meeting scheduled for March 10, 2016 at the Beaumont Cherry Valley Water District.

- Director Tom Shalhoub discussed information from the San Bernardino County Association of Special District to co-locate cellular towers on District parcels.
- IX. Adjournment - The meeting was adjourned at 5:20 p.m.

Respectfully submitted,

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Joseph B. Zoba, Secretary



# Board Reports



Yucaipa Valley Water District



## Notice and Agenda of a Regular Meeting

### Wednesday, February 24, 2016 at **5:00 p.m.**

Banning City Hall Council Chambers  
99 East Ramsey Street, Banning, California 92220

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1. Call to Order
2. Public Comments
3. Approval of Minutes
  - a. Alliance Meeting Minutes - January 27, 2016
4. Discussion Items
  - a. Discussion Regarding Regional Water Resource Issues
5. Future Meeting Topics
6. Comments by Alliance Members
7. Announcements
  - a. Next Meeting Date: **Wednesday, March 23, 2016 at 5:00 pm**
8. Adjournment



Yucaipa Valley Water District

## Notice of a Recycled Water Fill Station Training Session for Residential Customers

The Yucaipa Valley Water District has received a permit to operate a recycled water filling station allowing residential customers to pick up recycled water for their home landscaping needs. Prior to receiving recycled water, all residential users are required to complete a brief training session to learn more about the program and the use of recycled water.

Please join us to at the next meeting to participate in this program.

**Recycled Water Training Session**  
**Monday, February 29, 2016, at 5:00 p.m.**  
Yucaipa Valley Regional Water Filtration Facility at Crystal Creek  
35477 Oak Glen Road, Yucaipa 92399



For additional information, please contact the Yucaipa Valley Water District at (909) 797-5117 or by email at [customer\\_service@yvwd.dst.ca.us](mailto:customer_service@yvwd.dst.ca.us).



Yucaipa Valley Water District

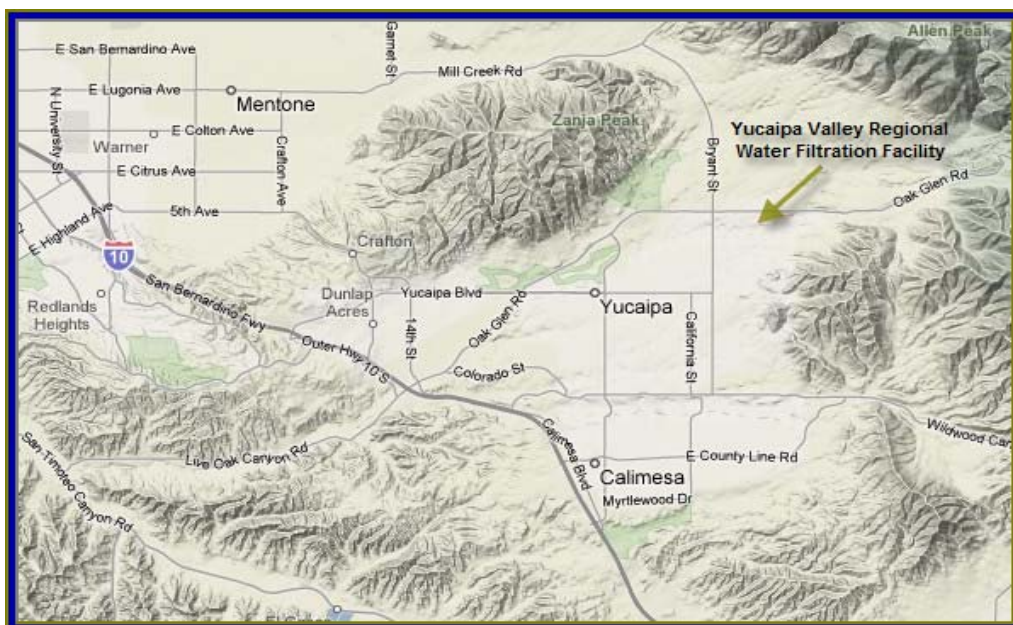
# Notice of a Community Water Meeting

## Join Us for a Conversation about the Drought, Local Water Resources and Water Conservation Programs

The Yucaipa Valley Water District will be hosting a community conversation to discuss the current drought, recycled water, Skydrop irrigation controllers and the management of our water resources.

For more additional information, please contact the Yucaipa Valley Water District at (909) 797-5117.

**Monday, February 29, 2016, at 6:00 p.m.**  
Yucaipa Valley Regional Water Filtration Facility at Crystal Creek  
35477 Oak Glen Road, Yucaipa 92399



**SAN GORGONIO PASS WATER AGENCY  
1210 Beaumont Avenue, Beaumont, CA**

**NOTICE AND CALL OF SPECIAL MEETING**

**NOTICE IS HEREBY GIVEN**, that pursuant to Government Code Section 54956, a Special Meeting of the San Gorgonio Pass Water Agency Board of Directors is hereby called by the President of the Board for:

**Date/Time:** Monday, February 29, 2016 at 7:00 p.m.

**Location:** San Gorgonio Pass Water Agency  
1210 Beaumont Avenue, Beaumont, CA

**SPECIAL MEETING AGENDA**

**1. Call to Order, Flag Salute and Roll Call**

**2. Adoption and Adjustment of Agenda**

**3. Public Comment:** Members of the public may address the Board at this time concerning only items listed on this Special Meeting Agenda. Please complete a speaker's request form and hand it to the Board secretary.

**4. New Business (Discussion and Possible Action)**

- A. Consideration and possible action to propose a facilitated process in regard to the regional water supply issues, concepts, and solutions, by and between San Gorgonio Pass Water Agency, Beaumont Cherry Valley Water District, Yucaipa Valley Water District, and San Bernardino Valley Municipal Water District\* (Page 2)
- B. Consideration and possible action regarding proposed joint public meeting with the Board of Directors of the San Gorgonio Pass Water Agency, Beaumont Cherry Valley Water District, Yucaipa Valley Water District, and possibly other public and private water retailers in the Agency's service area. Proposed date and time – Thursday, March 10, 2016 at 6:00 pm at the Beaumont Cherry Valley Water District.\* (Page 2)

**5. Announcements**

- A. Regular Board Meeting, March 7, 2016 at 7:00 pm
- B. Engineering Workshop, March 14, 2016 at 4:00 pm

**6. Adjournment**

**\*Information included in Agenda Packet**

(1) Materials related to an item on this Agenda submitted to the Board of Directors after distribution of the agenda packet are available for public inspection in the Agency's office at 1210 Beaumont Avenue, Beaumont during normal business hours. (2) Pursuant to Government Code section 54957.5, non-exempt public records that relate to open session agenda items and are distributed to a majority of the Board less than seventy-two (72) hours prior to the meeting will be available for public inspection at the Agency's office, located at 1210 Beaumont Avenue, Beaumont, California 92223, during regular business hours. When practical, these public records will also be made available on the Agency's Internet Web site, accessible at <http://www.sgpwa.com>. (3) Any person with a disability who requires accommodation in order to participate in this meeting should telephone the Agency (951 845-2577) at least 48 hours prior to the meeting in order to make a request for a disability-related modification or accommodation.

# Staff Report



Yucaipa Valley Water District





February 24, 2016

**Contact:**

Ted Thomas, DWR Information Officer – (916) 653-9712

[Ted.Thomas@water.ca.gov](mailto:Ted.Thomas@water.ca.gov)

Doug Carlson, DWR Information Officer – (916) 653- 5114

[Doug.Carlson@water.ca.gov](mailto:Doug.Carlson@water.ca.gov)

## State Water Project Allocation Increased

*Supply Outlook Improves, but State Remains in Drought*

**SACRAMENTO** –The Department of Water Resources (DWR) today increased its water delivery estimate (allocation) for most recipients to 30 percent of requests for the calendar year. However, recipients are being warned that extended dry weather could force an allocation reduction.

“Today’s increase, although good news, does not mean the drought is ending,” said DWR Director Mark Cowin. “After more than four dry years, we still have a critical water shortage. We need a lot more wet weather this winter to take the edge off drought. Using water carefully and sparingly is still the quickest, most effective way to stretch supplies.”

Today’s announcement is the second incremental increase in the State Water Project (SWP) allocation since an initial allocation of 10 percent was announced in December. An increase to 15 percent was announced on January 26, after storms began to build the Sierra Nevada snowpack and bring significant rainfall to the drought-parched state.

The 29 public agencies that receive SWP water (State Water Project Contractors) requested 4,172,786 acre-feet of water for 2016. With today’s allocation increase, they will receive 1,268,724 acre-feet. The 30 percent allocation announced today may be increased if storms bring more rain and snow.

A remarkably dry February limited today’s allocation increase – a stark reminder of how quickly California can turn from wet to dry.

Outdated water delivery infrastructure in the Sacramento-San Joaquin Delta also affected today’s allocation increase. SWP pumping in the Delta has been limited this winter in order to minimize harm to native fish species. DWR estimates that 458,000 acre-feet of water – enough to supply 3.4 million people for a year – could have been captured if the new intakes, tunnels, and operating criteria proposed by California WaterFix had been in place. That project proposal is now undergoing environmental review.

together closely as a Real-Time Drought Operations Management Team to capture water supply in the Delta without unreasonably affecting threatened and endangered fish species. That team works to balance multiple demands in the Delta while managing water project pumping infrastructure that pulls south Delta channels – and native fish – in unnatural directions. California WaterFix would minimize these harmful “reverse flows.”

There is no exact formula for ending the drought and conditions vary region by region, but a rough guidepost is that approximately 150 percent of average winter precipitation – rain and snow – would significantly ease statewide conditions, with the major exception of groundwater depletion.

The severe drought that began in 2012 has diminished water supplies to all sectors. California communities have been ordered to reduce overall water use by an average of 25 percent compared to 2013 levels. Some streams have dried up entirely, and others have gone slack and warm enough to threaten native fish populations. Flow requirements for environmental purposes were reduced in 2014 and 2015 by state regulators struggling to balance competing demands for water. Water project deliveries to farmers have been reduced drastically, with some getting no deliveries for two consecutive years. No crops were planted on more than half a million acre-feet of California farmland last year.

Collectively, the SWP Contractors serve approximately 25 million Californians and just under a million acres of irrigated farmland. The project provides the same allocation percentages to urban and agricultural water districts.

It is important to note that nearly all areas served by the SWP also have other sources of water, among them streams, groundwater and local reservoirs.

Key reservoirs are rising from early winter storms, but most remain low.

Lake Oroville in Butte County, the State Water Project’s principal reservoir, early this morning was holding 1,808,410 acre-feet, 51 percent of its 3.5 million acre-foot capacity and 74 percent of its historical average for the date. Shasta Lake north of Redding, California’s and the federal Central Valley Project’s (CVP) largest reservoir, was holding 2,690,554 acre-feet, 59 percent of its 4.5 million acre-foot capacity and 82 percent of its historical average. San Luis Reservoir, a critical south-of-Delta pool for both the SWP and CVP, reflects the same trend of lower reservoir storage this year. San Luis was holding 854,623 acre-feet, 42 percent of its 2 million acre-foot capacity and 50 percent of normal for the date.

Folsom Lake, a CVP reservoir near Sacramento, has risen to 64 percent of its 977,000 acre-foot capacity, 117 percent of its historic average for the date. Folsom fills more rapidly than many other reservoirs due to its relatively small size compared with its huge watershed.

Groundwater aquifers recharge much more slowly than surface reservoirs, with many in the Central Valley sinking toward record levels.

Last year’s (2015) 20 percent allocation was the second lowest since 1991, when agricultural customers of the SWP got a zero allocation and municipal customers



amounts for all customers.

The last 100 percent allocation – difficult to achieve even in wet years largely because of Delta pumping restrictions to protect threatened and endangered fish species – was in 2006. SWP allocations in recent years:

2015 – 20 percent

2014 – 5 percent

2013 – 35 percent

2012 – 65 percent

2011 – 80 percent

2010 – 50 percent

2009 – 40 percent

2008 – 35 percent

2007 – 60 percent

2006 – 100 percent

Governor Edmund G. Brown Jr. declared a drought state of emergency on January 17, 2014 and followed up with statewide water conservation mandates. Since then, the state has been swept by drought-fueled forest fires, in addition to vast tracts of farmland being fallowed and some communities left scrambling for drinking water.

Long-range weather forecasts are uncertain, and there is no way to know if this winter will deeply dent the state's historic drought.

DWR's California Data Exchange Center (CDEC) Web sites show current water conditions at the state's reservoirs and weather stations.

**Reservoirs:** <http://cdec.water.ca.gov/cdecapp/resapp/getResGraphsMain.action>

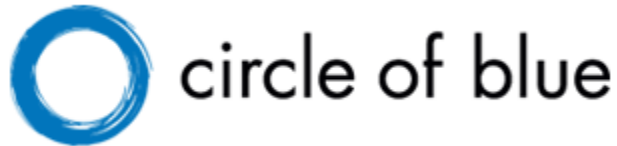
**Precipitation:** [http://cdec.water.ca.gov/snow\\_rain.html](http://cdec.water.ca.gov/snow_rain.html)

**Snow:** <http://cdec.water.ca.gov/cdecapp/snowapp/sweq.action>

-30-

*While the early winter rain and snowpack are promising, this may yet prove to be a fifth consecutive year of drought in California. To learn about all the actions the state has taken to manage our water system and cope with the impacts of the drought, visit [Drought.CA.gov](http://Drought.CA.gov). Every Californian should take steps to conserve water; find out how at*

[SaveOurWater.com](http://SaveOurWater.com).



## **Infographic: The Age of U.S. Drinking Water Pipes — From Civil War Era to Today**

THURSDAY, 18 FEBRUARY 2016 11:54

*Water main ages reflect the nation's growth*

**By Brett Walton, Circle of Blue**

The American Water Works Association calls it the Replacement Era. An estimated 1.9 million kilometers (1.2 million miles) of distribution pipes supply Americans with drinking water. Many of them are nearing or have past retirement age. A big investment — perhaps as much as \$US 1 trillion over the next two decades — must be made to replace them.

Age, however, is only part of the story. The deterioration of any particular pipe depends on a bundle of pressures: What material are the pipes made of? Cast iron, ductile iron, polyvinyl chloride, or, occasionally, wood? Each has a different lifespan. What are the chemical properties of the soil and water? Some are more corrosive. What is the climate? Cycles of freezing and thawing or drought can weaken pipes.

The need to replace these pipes, most of which have a useful lifespan of more than 75 or 100 years, will continue to grow. The U.S. Environmental Protection Agency forecasts that the rate of replacement will rise until 2035, as national investment in water mains peaked in the boom years after World War II.

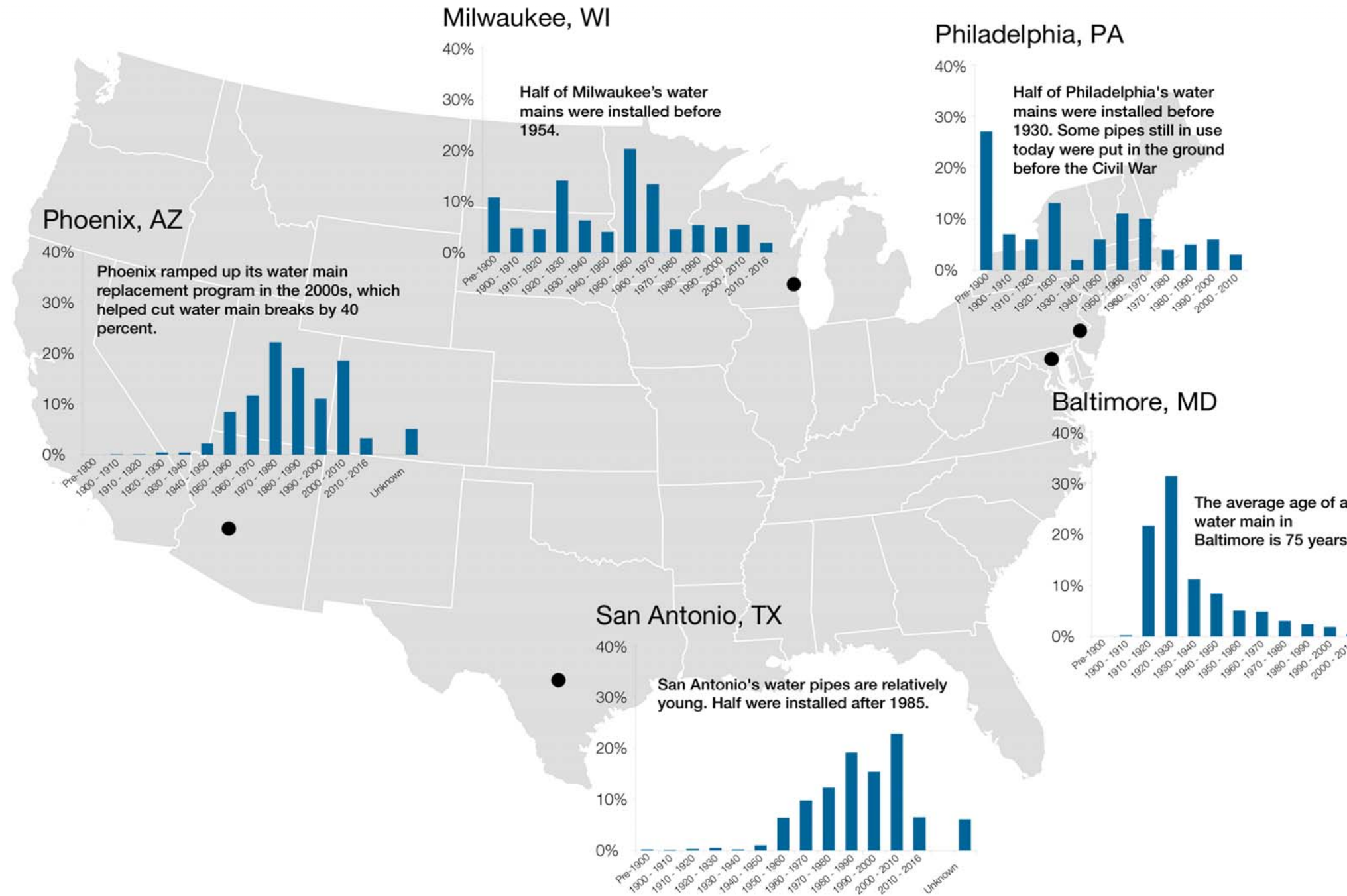
The graphic below shows the percent of current water mains installed by decade. The patterns reflect America's growth. Older pipes weave beneath the colonial cities on the East Coast. Philadelphia, for one, still uses water mains installed before the Civil War.

Cities that grew fast in the latter half of last century have newer systems. More than half of San Antonio's water mains were laid in the ground between 1980 and 2010 — which seems appropriate given that its population grew by 70 percent in that period.

Source: <http://www.circleofblue.org/waternews/2016/world/infographic-the-age-of-u-s-drinking-water-pipes-from-civil-war-era-to-today/>

# The Age of U.S. Water Pipes

From pre-Civil War to Civil Rights era, U.S. water systems reflect a range of ages.



Each year about **240,000 water main breaks** result in lost water and disruptions to daily life.  
(U.S. Environmental Protection Agency)

America's municipal water systems are responsible for more than **1.2 million miles** of water mains.  
(Utah State University)

Repairing and replacing old water pipes could cost more than **\$US 1 trillion** over the next two decades.  
(American Water Works Association)



Pipe age data requested by Circle of Blue from Baltimore Department of Public Works, Milwaukee Water Works, Philadelphia Water, Phoenix Water Services Department, and San Antonio Water System.

# Discussion Items



Yucaipa Valley Water District



**Date:** March 2, 2016

**Prepared By:** Brent Anton, Engineering Manager

**Subject:** Change Order No. 1 and Notice of Completion for the Contract with Weka, Inc. for the Miscellaneous Recycled Pipelines Project

**Recommendation:** That the Board approves Change Order No. 1 and authorizes the filing of the Notice of Completion and release of the retention amount of \$21,718.11 thirty-five days after the recorded date.

At the regular board meeting on June 17, 2015, the Board authorized staff to solicit bids for the construction of new recycled water pipelines and service connections to the existing recycled water system [Director Memorandum No. 15-057].

At the regular board meeting on September 16, 2015, the Board awarded a construction contract to the lowest bidder, Weka, Inc. for a sum not to exceed \$411,536.00 [Director Memorandum No. 15-084].

Change Order No. 1 adjusts the contract for additional paving on Palm Drive and additional cap paving on 6th Street for an increase in the amount of \$22,826.16 for a revised contact amount of \$434,362.16.

	Contract Changes	Contract Amount	Percentage Change from Original Bid Amount	Reference
Original Bid Amount		\$411,536.00	- -	DM 15-084
Change Order No. 1		\$22,826.16	5.5% increase	DM 16-023

The project is now complete and based on the letter from Krieger & Stewart; District staff recommends that the Board authorizes the filing of the Notice of Completion and release of the retention amount of \$21,718.11 thirty-five days after the recorded date.

**RECEIVED**

**FEB 08 2016**

**KUNIGER & STEWART**  
C.O. NO. 1

PAGE 1 OF 2

**CONTRACT CHANGE ORDER NO. 1**

CONTRACT Miscellaneous Recycled Pipelines  
DATED September 16, 2015 BY AND BETWEEN Yucaipa Valley Water District (OWNER), AND  
WEKA, Inc. (CONTRACTOR), is hereby directed to make the following change(s) in  
Contract Work:

ITEM NO.	DESCRIPTION OF CHANGE	DECREASE \$	INCREASE \$
1.	Furnish and Install Additional Paving on Palm Drive.		\$8,100.00
2.	Furnish and Install Additional Cap Paving on 6th Street.		\$14,726.16

Total DECREASE in Contract Amount	<u>\$0.00</u>
Total INCREASE in Contract Amount	<u>\$22,826.16</u>
Net change in Contract Amount	<u>\$22,826.16</u>
Contract Amount Prior to Change	<u>\$411,536.00</u>
Contract Amount Adjusted for Change	<u>\$434,362.16</u>

Rev 0614  
Miscellaneous Recycled Pipelines

Change Order Form S-1

CONTRACT CHANGE ORDER NO. 1

PAGE 2 OF 2

By reason of Change Order No. 1, time of completion shall be adjusted as follows:

Adjusted Contract Completion Date shall be: February 10, 2016.

All provisions of the Contract shall apply hereto, and shall become effective when fully executed (signed and dated) by both parties.

Recommended by (Engineer) Patrick M. Vlatos Date: 2-1-16

Accepted by (Contractor) [Signature] Date: 2-1-16

Approved by (Owner) \_\_\_\_\_ Date: \_\_\_\_\_

Remarks \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_





February 17, 2016

818-93.1 F/C

Brent Anton  
Yucaipa Valley Water District  
P.O. Box 730  
Yucaipa, CA 92399

Subject: Miscellaneous Recycled Pipelines  
Recommendation of Acceptance of Contract Work

Dear Mr. Anton:

All work required to be performed by Weka, Inc for the Miscellaneous Recycled Pipelines Project is essentially complete and the final Contract Amount for same is set forth as follows:

Original Contract Amount:	\$411,536.00
Contract Change Order No. 1:	<u>\$22,826.16</u>
Final Contract Amount:	\$434,362.16

Since the Contract Work has been essentially completed in accordance with the Contract Documents, we recommend the District accept said Work. Subsequent to Board acceptance, a Notice of Completion should be filed and thereafter, following the lien period, the District should make final payment (i.e. release retained amount), provided no Stop Notices have been filed.

If you have any questions, please call.

Sincerely,

KRIEGER & STEWART

A handwritten signature in black ink, appearing to read 'Patrick M. Watson', is written over a horizontal line.

Patrick M. Watson

PMW/  
818-93-REACCEPT

cc: Linda Kilday, Yucaipa Valley Water District



Record Without Fee  
Per Govt. Code 6103

Recording Requested By:  
Yucaipa Valley Water District

And When Recorded Mail To:  
Yucaipa Valley Water District  
P.O. Box 730  
Yucaipa, CA 92399

SPACE ABOVE THIS LINE FOR RECORDERS USE

**NOTICE OF COMPLETION**

Project Number/CMMS Number: P-04-293  
Director Memorandum Number for Authorization: DM 15-084  
Director Memorandum Number for Notice of Completion: DM 16-

Notice pursuant to Civil Code Section 3093, must be filed within 10 days after completion.

Notice is hereby given that:

1. The undersigned is owner or corporate officer of the owner of the interest in the property hereinafter described:
2. The full name of the owner is Yucaipa Valley Water District
3. The full address of the owner is 12770 Second Street, Yucaipa, CA 92399
4. The Nature of the Interest or Estate of the Undersigned is: In Fee
5. A work performed hereinafter described was completed on February 17, 2016. The work done was: Miscellaneous Recycled Pipelines
6. The name of the contractor for such work was: Weka, Inc.

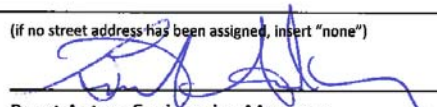
September 16, 2015

(Date of Contract)

7. The property on which said work was complete in the City of Yucaipa  
County of San Bernardino, State of CA, and is described as APN: N/A
8. The street address of said property is N/A

(if no street address has been assigned, insert "none")

Dated February 18, 2016

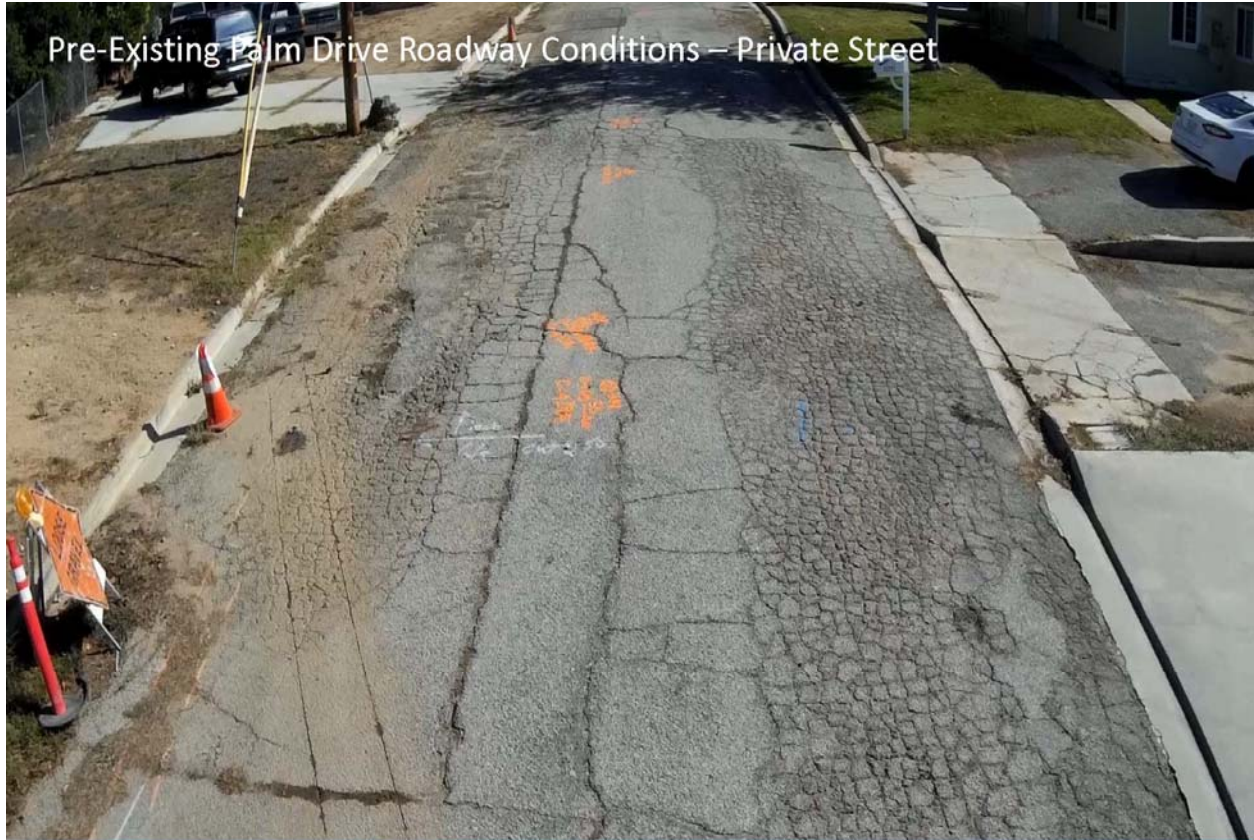
  
Brent Anton, Engineering Manager  
Yucaipa Valley Water District

**Verification**

I, the undersigned, say: I am the General Manager of the Declarant of the foregoing Notice of Completion; I have read said Notice of Completion and know the comments thereof; the same is true to my knowledge. I declare under penalty of perjury that the foregoing is true and correct.

Executed on March 2, 2016 at Yucaipa, CA.

\_\_\_\_\_  
Joseph B. Zoba, General Manager  
Yucaipa Valley Water District



Pre-Existing Palm Drive Roadway Conditions – Private Street



Slurry Seal of Palm Drive – Private Street



**Date:** March 2, 2016

**Prepared By:** Brent Anton, Engineering Manager

**Subject:** Change Order No. 1 and Notice of Completion for the Contract with Pacific Hydrotech Corporation for the Construction of Support Structures for the Existing Sewer Bridge Crossing Yucaipa Creek

**Recommendation:** That the Board approves Change Order No. 1 and authorizes the filing of the Notice of Completion and release of the retention amount of \$24,230.50 thirty-five days after the recorded date.

At the regular board meeting on January 6, 2016, the Board awarded an emergency construction contract to Pacific Hydrotech for a sum not to exceed \$524,906 [Director Memorandum No. 16-006].

Change Order No. 1 adjusts the contract for the elimination of painting, field welding and cutting, and excess labor costs for overtime and Sunday work resulting in a decrease in the amount of \$40,296 for a revised contact amount of \$484,610.

	Contract Changes	Contract Amount	Percentage Change from Original Bid Amount	Reference
Original Bid Amount		\$524,906	--	DM 16-006
Change Order No. 1	(\$40,296)	\$484,610	7.7% decrease	DM 16-024

The project is now complete and based on the letter from Krieger & Stewart; District staff recommends that the Board authorizes the filing of the Notice of Completion and release of the retention amount of \$24,230.50 thirty-five days after the recorded date.



C.O. NO. 1

PAGE 1 OF 2

CONTRACT CHANGE ORDER NO. 1

CONTRACT 21" Sewer Transmission Pipeline Support Structure  
 DATED January 6, 2016 BY AND BETWEEN Yucaipa Valley Water District (OWNER), AND  
Pacific Hydrotech Corporation (CONTRACTOR), is hereby directed to make the following  
 change(s) in Contract Work:

ITEM NO.	DESCRIPTION OF CHANGE	DECREASE \$	INCREASE \$
1.	Eliminate Bid Item 111 - Painting of Support Structure.	\$8,000.00	
2.	Eliminate Bid Item 112 - Provide certified welder to perform field welding and cutting.	\$13,000.00	
3.	Reduce Bid Item 114 - Excess labor costs for overtime work.	\$10,560.00	
4.	Eliminate Bid Item 115 - Excess labor costs for Sunday work.	\$8,736.00	

Total DECREASE in Contract Amount	\$40,296.00
Total INCREASE in Contract Amount	\$0.00
Net change in Contract Amount	(\$40,296.00)
Contract Amount Prior to Change	\$524,906.00
Contract Amount Adjusted for Change	\$484,610.00

CONTRACT CHANGE ORDER NO 1

PAGE 2 OF 2

By reason of Change Order No. 1, time of completion shall be adjusted as follows:

Adjusted Contract Completion Date shall be: February 20, 2016.

All provisions of the Contract shall apply hereto, and shall become effective when fully executed (signed and dated) by both parties.

Recommended by (Engineer) Patrick M. Watan Date: 2-17-16

Accepted by (Contractor) Jonathan Filbin Date: 2/17/16

Approved by (Owner) \_\_\_\_\_ Date: \_\_\_\_\_

Remarks \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



February 17, 2016

818-96.1 F/C

Brent Anton  
 Yucaipa Valley Water District  
 P.O. Box 730  
 Yucaipa, CA 92399

Subject: 21" Sewer Transmission Pipeline Support Structure  
 Recommendation of Acceptance of Contract Work

Dear Mr. Anton:

All work required to be performed by Pacific Hydrotech Corporation for the 21" Sewer Transmission Pipeline Support Structure Project is essentially complete and the final Contract Amount for same is set forth as follows:

Original Contract Amount:	\$524,906.00
Contract Change Order No. 1:	<u>(\$40,296.00)</u>
Final Contract Amount:	\$484,610.00

Since the Contract Work has been essentially completed in accordance with the Contract Documents, we recommend the District accept said Work. Subsequent to Board acceptance, a Notice of Completion should be filed and thereafter, following the lien period, the District should make final payment (i.e. release retained amount), provided no Stop Notices have been filed.

If you have any questions, please call.

Sincerely,

KRIEGER &amp; STEWART

Patrick M. Watson

PMW/  
 818-96-RECACCEPT

cc: Linda Kilday, Yucaipa Valley Water District

Record Without Fee  
Per Govt. Code 6103

Recording Requested By:  
Yucaipa Valley Water District

And When Recorded Mail To:  
Yucaipa Valley Water District  
P.O. Box 730  
Yucaipa, CA 92399

SPACE ABOVE THIS LINE FOR RECORDERS USE

**NOTICE OF COMPLETION**

Project Number/CMMS Number: P-03-303  
Director Memorandum Number for Authorization: DM 16-006  
Director Memorandum Number for Notice of Completion: DM 16-

Notice pursuant to Civil Code Section 3093, must be filed within 10 days after completion.

Notice is hereby given that:

1. The undersigned is owner or corporate officer of the owner of the interest in the property hereinafter described:
2. The full name of the owner is Yucaipa Valley Water District
3. The full address of the owner is 12770 Second Street, Yucaipa, CA 92399
4. The Nature of the Interest or Estate of the Undersigned is: In Fee
5. A work performed hereinafter described was completed on February 17, 2016. The work done was: Rest Stop Sewer Bridge Replacement
6. The name of the contractor for such work was: Pacific Hydrotech

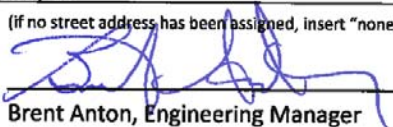
January 06, 2016

(Date of Contract)

7. The property on which said work was complete in the City of Yucaipa  
County of San Bernardino, State of CA, and is described as APN: 0301-221-09
8. The street address of said property is 32400 Outer Highway 10

(if no street address has been assigned, insert "none")

Dated February 18, 2016

  
Brent Anton, Engineering Manager  
Yucaipa Valley Water District

**Verification**

I, the undersigned, say: I am the General Manager of the Declarant of the foregoing Notice of Completion; I have read said Notice of Completion and know the comments thereof; the same is true to my knowledge. I declare under penalty of perjury that the foregoing is true and correct.

Executed on March 2, 2016 at Yucaipa, CA.

Joseph B. Zoba, General Manager  
Yucaipa Valley Water District









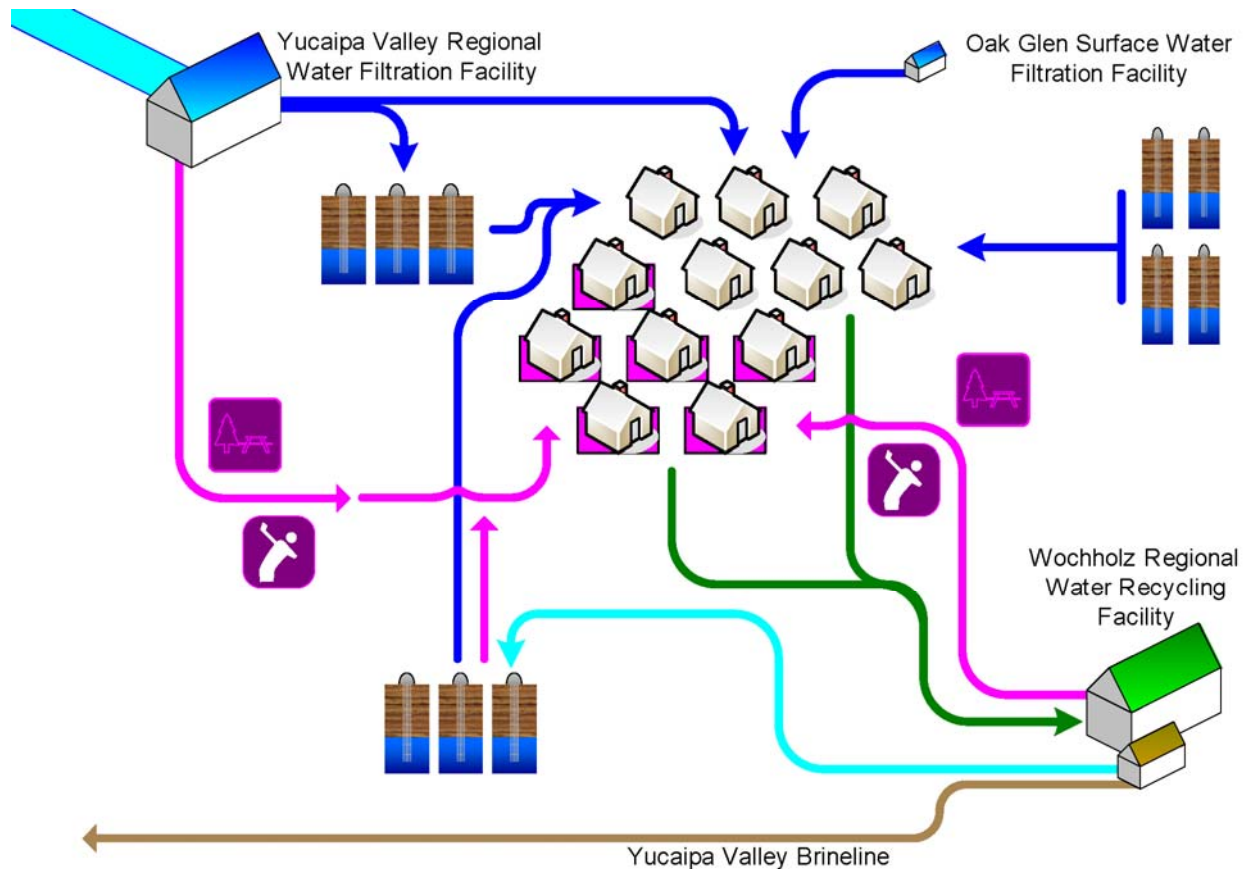
**Date:** March 2, 2016

**Prepared By:** Joseph Zoba, General Manager

**Subject:** Consideration of Resolution No. 2016-11 Supporting the Construction of Recycled Water Facilities Associated with the Phase IV-A, IV-B, and IV-C of the Integrated Recycled Water and Drought Preparedness Project for the North Bench, Oak Glen, and Wildwood Areas

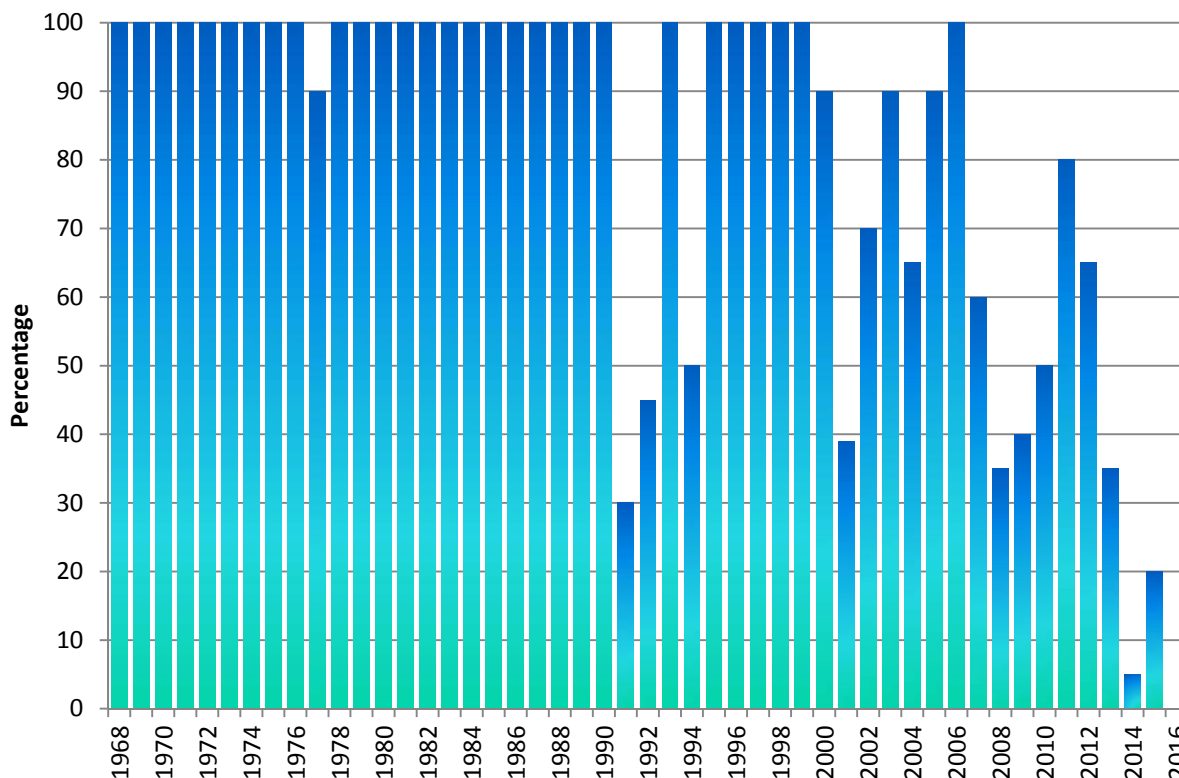
**Recommendation:** That the Board adopts Resolution No. 2016-11.

On August 20, 2008, the Board of Directors adopted Resolution No. 11-2008 establishing a strategic plan for the management, integration and preservation of water resources. This Plan embodied the concepts of water resource management and the full integration of services offered by the Yucaipa Valley Water District. One key component of the strategic plan is the reliance on recycled water being put to beneficial use throughout the sphere of influence of the Yucaipa Valley Water District.



One of the main reasons associated with the District’s decision to rely heavily upon recycled water supplies is the lack of certainty associated with the State Water Project. As shown below, the allocation of water from the State Water Project has decreased significantly over the past two decades.

**Final Allocation from the Department of Water Resources for Imported Water from the State Water Project**



While the Department of Water Resources and State Water Contractors typically state a 60% reliability factor for the State Water Project, the final allocation of imported water over the past decade has only been 49%. As this system continues to become more unstable and more unreliable, the Yucaipa Valley Water District must pursue alternative sources of water to meet the needs of our community.

Maximization of the Use of Recycled Water

Sewer treatment plants are required to provide a level of treatment to protect beneficial uses downstream of discharge points. These requirements dictate that a sewer treatment plant located in Yucaipa, Calimesa or Beaumont discharge extremely high quality recycled water to protect downstream uses throughout the Santa Ana Watershed.

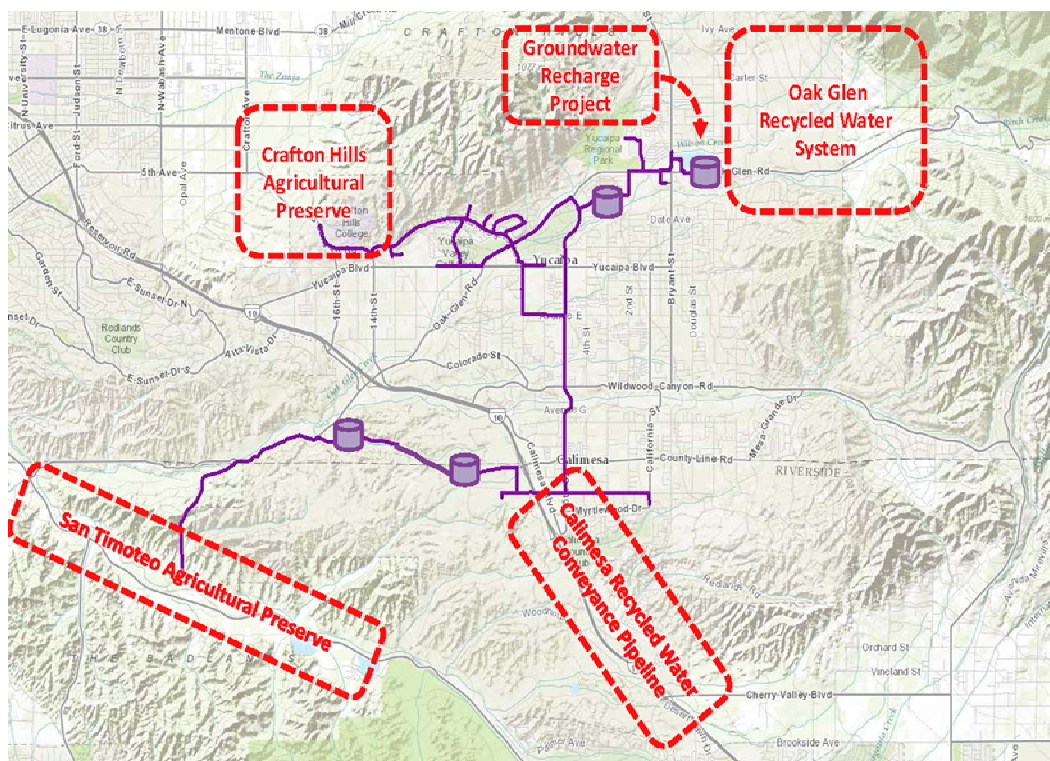
Over the past decade, the Regional Water Quality Control Board has implemented stringent regulatory requirements that have significantly increased the cost of treatment processes that are needed to reduce minerals (salinity) and nitrogen in the recycled water supplies. This level of treatment requires equipment and purification processes that are similar to those commonly found in drinking water filtration facilities. The net effect is that the Yucaipa Valley Water District has to discharge extremely high quality recycled water, comparable to drinking water, without any

compensation from water retailers downstream who receive a direct benefit from the pure water resources produced from the sewer treatment plant.

Recognizing that recycled water is a highly pure and reliable source of water, the Board of Directors approved the construction of several projects designed to maximize the use of recycled water throughout the Yucaipa Valley Water District's sphere of influence. These facilities are now largely completed.

On June 11, 2013, the District staff provided an overview of our existing recycled water system and proposed recycled water pipelines to further expand the use of recycled water [Workshop Memorandum No. 13-119]. The discussion focused primarily on the following five project areas:

- The Oak Glen Recycled Water System;
- The Wilson Creek Groundwater Recharge Project;
- The Crafton Hills Agricultural Preserve;
- The Calimesa Recycled Water Conveyance Pipeline; and
- The San Timoteo Agricultural Preserve.



At the regular board meeting on December 3, 2014, the Board of Directors adopted Resolution No. 2014-20 regarding the expansion of the recycled water system to indicate support of the five proposed projects [Director Memorandum No. 14-098]. At the regular board meeting on June 3, 2015, the Board of Directors adopted resolution No. 2015-10 supporting specific projects in the Oak Glen and Wildwood areas [Director Memorandum No. 15-052].

Due to the ongoing drought conditions, the District staff recommends adoption of Resolution No. 2016-11 as a refinement of Resolution No. 2015-10 and focusing specifically on the expansion of the recycled water system in the North Bench, Oak Glen and Wildwood areas. The goal of this



project would be to reduce the use of groundwater for irrigation purposes by utilizing recycled water produced by the Wochholz Regional Water Recycling Facility.

Also included in this resolution is authorization for a representative from the District to support state and federal legislation that provides financial support for the proposed project. This broad authorization allows the District staff to work directly with legislative staff members at the federal and state level to bring this project to fruition.



# The Fresno Bee

WATER &amp; DROUGHT

FEBRUARY 10, 2016 10:56 AM

## Dianne Feinstein tries yet again with California water bill

### HIGHLIGHTS

Senator hopes third time is the charm for long-stalled legislation

House Republicans and Delta-area Democrats pose tricky balancing act

While California drought continues, healthy snowpack promises some relief

BY MICHAEL DOYLE

[mdoyle@mcclatchydc.com](mailto:mdoyle@mcclatchydc.com)

WASHINGTON - Democratic Sen. Dianne Feinstein on Wednesday relaunched a big California water bill, in what might be cast as the triumph of hope over experience.

Unveiling her third proposal in the past two years for ways to divide California's water supply among many competing interests, Feinstein packaged her latest 184-page measure as a reasonable compromise that draws the best from past Capitol Hill efforts.

The bill introduced Wednesday largely tracks draft language Feinstein made public in January. It eases limits on water transfers south of the Delta, but does not mandate specific pumping levels. It authorizes \$1.3 billion for desalination, water recycling, storage and grants. It compels completion of feasibility studies for storage projects like Temperance Flat on the San Joaquin River.

"Drafting this bill has been difficult, probably the hardest bill I've worked on in my 23 years in the Senate," Feinstein said. "But it's important, and that's why we've been working so hard, holding dozens and dozens of meetings and revising the bill over and over again."

As part of the bill's unveiling, Feinstein disclosed words of encouragement from parties who usually are on opposite sides of the water battle, including Rep. John



Democratic Sen. Dianne Feinstein on Wednesday relaunched a big California water bill. **Pablo Martinez Monsivais** - Associated Press file

Garamendi, D-Walnut Grove, and the South Valley Water Association. (Correction: The original version of this story stated that the Westlands Water District and the Kern County Water Agency are members of the South Valley Water Association. They are separate organizations. Westlands and KCWA also back the Feinstein bill.)

The South Valley Water Association said parts of the bill “have merit” and represent a “positive step in the effort to find reasonable solutions.”

But with California’s House Republicans often demanding more certain deliveries of water for agriculture while Democrats representing the environmentally sensitive Sacramento-San Joaquin Delta seek more water for those interests, the new bill faces some familiar obstacles.

“How do you thread that needle?” Rep. Jared Huffman, D-San Rafael, said in an interview, when asked whether Congress will reach a viable compromise. “I think it’s highly unlikely.”

““

**WHILE SENATOR FEINSTEIN’S LEGISLATION FAILS TO PROVIDE REAL WATER TO MY CONSTITUENTS, I HOPE SHE IS ABLE TO SECURE PASSAGE OF THE LEGISLATION IN THE SENATE SO THAT THE TWO CHAMBERS MAY ... RECONCILE THE DIFFERENCES BETWEEN BOTH BILLS.**

Rep. David Valadao, R-Hanford

The money provided includes \$600 million for projects that could include constructing Temperance Flat Dam on the San Joaquin River above Millerton Lake or Sites Reservoir in the Sacramento Valley, and raising the height of Shasta Dam. The bill also cites “additional storage” at New Melones Reservoir on the Stanislaus River and creates a program to remove non-native predator fish from the Stanislaus River.

“This bill won’t be everything for everyone; candidly, that’s not possible with California water policy,” Feinstein said, “but I believe the bill strikes the right balance.”

Underscoring the challenges ahead, Feinstein’s Democratic colleague, Sen. Barbara Boxer, remained agnostic on the bill Wednesday, saying simply that she thanked Feinstein for her work and will now “look forward to getting feedback from all the major stakeholders.”

Feinstein’s latest bill also confronts, both in California and on Capitol Hill, changing climates that could further complicate lawmakers’ efforts.

The Republican-controlled House passed an extremely ambitious water bill in February 2012, when the statewide snowpack was 33 percent of normal. Written with little Democratic involvement, and passed along nearly strict party lines, the package eventually died.

When Feinstein introduced her first California Emergency Drought Act in February 2014, following the earlier House action, the statewide snowpack was 20 percent of normal. Now, though, propelled by El Niño, the statewide snowpack is 105 percent of normal.

While drought conditions persist, the infectious sense of political urgency may be lessened.

“

**WHAT HAS BECOME CLEAR IS THAT EACH REGION OF THE STATE AND EACH STAKEHOLDER GROUP HAS ITS OWN VESTED INTEREST, AND THIS MAKES CONSENSUS EXTRAORDINARILY DIFFICULT.**

Sen. Dianne Feinstein, D-Calif.

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In Congress, moreover, the repeated legislative failures have chilled the negotiating atmosphere. California’s House Republicans gathered last December to explicitly blame California’s senators for the failure to reach a deal, and the office of House Majority Leader Kevin McCarthy has subsequently taunted Feinstein for not introducing a bill as quickly as she promised.

“While Senator Feinstein’s legislation fails to provide real water to my constituents, I hope she is able to secure passage of the legislation in the Senate so that the two chambers may ... reconcile the differences between both bills,” said Rep. David Valadao, R-Hanford.

House members are skeptical about any targeted spending that might be classified as an earmark, making those provisions of the Feinstein bill vulnerable. In another conflict, Valadao expressed the views of many House Republicans when he stressed that “mandated pumping levels are absolutely necessary.”

“I recognize that any bill in the Republican-led House will be far more aggressive on the short-term operational provisions and downplay the long-term provisions,” Feinstein said, “but such a bill would never pass the Senate.”

Feinstein’s bill introduced Wednesday does not address a proposed irrigation drainage settlement between the federal government and the Westlands Water District, which is the subject of a bill introduced last month by Valadao.

*Michael Doyle: 202-383-0006,*



**RESOLUTION NO 2016-11****A RESOLUTION OF THE YUCAIPA VALLEY WATER DISTRICT  
SUPPORTING PHASE IV-A, PHASE IV-B, AND PHASE IV-C OF THE INTEGRATED  
RECYCLED WATER AND DROUGHT PREPAREDNESS PROJECT  
(North Bench, Oak Glen and Wildwood Recycled Water Pipeline Project)**

**WHEREAS**, on January 17, 2014, California Governor Edmund G. Brown Jr issued Proclamation No. 1 -17-2014 declaring a State of Emergency to exist in California due to severe drought conditions and calling on all Californian's to reduce their water usage by 20 percent.

**WHEREAS**, on April 25, 2014, Governor Edmund G. Brown Jr. issued an Executive Order calling on all Californian's to redouble their efforts to conserve water. The Executive Order finds that the continuous severe drought conditions present urgent challenges across the State including water shortages in communities and for agricultural production, increased wildfires, degraded habitat for fish and wildlife, threat of saltwater contamination, and additional water scarcity if drought conditions continue into 2015.

**WHEREAS**, the National Integrated Drought Information System reported that nearly 80% of the State was reported to be under "extreme" drought conditions at the end of June 2014.

**WHEREAS**, on April 25, 2014, the Governor suspended the California Environmental Quality Act's application to the State Water Board's adoption of emergency regulations pursuant to Water Code Section 1058.5 to prevent the waste, unreasonable use, unreasonable method of use, or unreasonable diversion of water, and to promote the use of recycled water and water conservation.

**WHEREAS**, Water Code section 1058.5 grants the State Water Board the authority to adopt emergency regulations in drought years in order to: "prevent the waste, unreasonable use, unreasonable method of use, or unreasonable diversion of water, to promote water recycling or water conservation, to require curtailment of diversions when water is not available under the diverter's priority of right, or in furtherance of any of the foregoing, to require reporting of diversion or use or the preparation of monitoring reports".

**WHEREAS**, over the past several years, the Yucaipa Valley Water District has taken bold steps to reduce drinking water use by implementing an extensive recycled water system that currently reduces the demand on drinking water supplies by 10% annually and in excess of 15% during peak summer months.

**WHEREAS**, the Yucaipa Valley Water District supports the expansion and further development of the recycled water system to further reduce dependency on imported water supplies and groundwater resources by using recycled water throughout the region.

**WHEREAS**, on June 11, 2013, November 25, 2014, and January 13, 2015, the District staff provided detailed presentations at public workshops identifying the implementation of recycled projects that would be regionally integrated to provide enhanced drought preparedness for the region.



**NOW, THEREFORE, BE IT RESOLVED** by the Board of Directors, that the Yucaipa Valley Water District is committed to support Phase IV-A, Phase IV-B, and Phase IV-C of the Yucaipa Valley Water District Integrated Recycled Water and Drought Preparedness Project as generally illustrated in Exhibit "A".

Furthermore, the Board of Directors directs District staff to coordinate the appropriate phasing, design, environmental review, financial planning, and construction of the proposed recycled water pipelines, reservoirs and boosters to produce functional infrastructure that protects water quality objectives and enhances the long-term drought preparedness for the Yucaipa Valley Water District.

Furthermore, the Board of Directors directs the General Manager to pursue and take the necessary steps to obtain and support state and federal legislation that has a reasonable possibility of providing financial assistance for the development of this recycled water infrastructure.

PASSED, APPROVED and ADOPTED this 2<sup>nd</sup> day of March 2016.

YUCAIPA VALLEY WATER DISTRICT

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Lonni Granlund, President Board of Directors

ATTEST:

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Joseph B. Zoba, General Manager

### Exhibit "A"



## Phase IV-A and Phase IV-B of the Yucaipa Valley Water District Integrated Recycled Water and Drought Preparedness Project North Bench, Oak Glen and Wildwood Recycled Water Pipeline Project

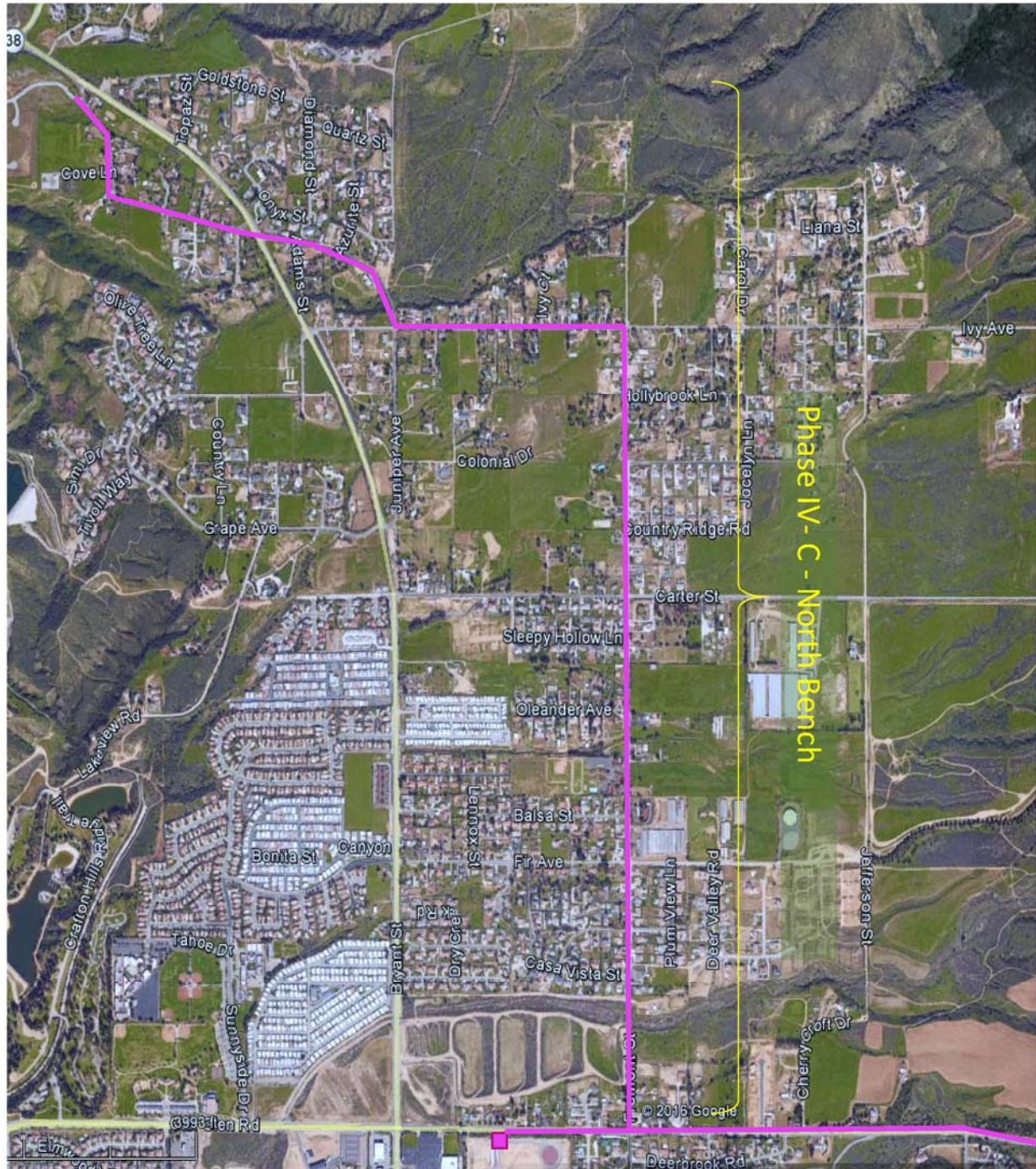




### Exhibit "A"



## Phase IV-C of the Yucaipa Valley Water District Integrated Recycled Water and Drought Preparedness Project North Bench Recycled Water Pipeline Project





**Date:** March 2, 2016

**Prepared By:** Jennifer Ares, Water Resource Manager

**Subject:** Notice Regarding the Preparation of the 2015 Yucaipa Valley Water District Urban Water Management Plan

**Recommendation:** No action required at this time.

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The Urban Water Management Planning Act requires larger water suppliers to coordinate the preparation of their Urban Water Management Plan with other agencies in the area. Specifically, California Water Code Section 10620(d)(2) and California Water Code Section 10642 requires that agencies coordinate their planning documents and provide outreach to other agencies and the community.

Retail water agencies are encouraged to solicit participation from other agencies responsible for developing related reports or planning documents such as General Plans, Water Master Plans, Groundwater Management Plans, or Public Water Service reports. Such coordination ensures consistency in planning and reporting. The following letter is an example of the correspondence being distributed to agencies and organizations.

The purpose of this agenda item is to provide additional public notice that the Yucaipa Valley Water District is in the process of preparing our 2015 Urban Water Management Plan.

[Letterhead]

February xx, 2016

Ms. Christine Kelley  
Director, Land Use Services Department  
County of San Bernardino  
385 N. Arrowhead Avenue – 1<sup>st</sup> Floor  
San Bernardino, CA 92415-0182

**Subject: 2015 Yucaipa Valley Water District Urban Water Management Plan**

Dear Ms. Kelley:

Yucaipa Valley Water District is in the process of developing the 2015 Urban Water Management Plan. The Urban Water Management Planning Act requires every “urban water supplier” of a certain size to prepare and adopt an Urban Water Management Plan (UWMP) at least once every five years. The UWMP is a planning document in which water suppliers evaluate and compare their water supply and reliability to their existing and projected demands. A complete UWMP is necessary for Yucaipa Valley Water District to remain eligible for state drought water bank assistance and is a requirement of state grant and loan funding programs.

The 2015 UWMP will include an update of anticipated water demands in the Yucaipa Valley Water District service area which includes portions of San Bernardino and Riverside County. Water demand projections will rely upon growth and population estimates from local land use plans and state and regional agencies. Yucaipa Valley Water District is encouraging participation by land use agencies, water use agencies, and other interested parties in the UWMP. **Yucaipa Valley Water District would like to extend to your agency an opportunity to meet with us to go over the various elements of the Urban Water Management Plan, including assumptions about future population, future water demand, future water supplies, and upcoming water conservation programs.**

We anticipate that a draft UWMP will be available for public review starting in May 2016 and our agency will hold a public hearing in June 2016, prior to adoption of the UWMP. Hence we would like to solicit your input in the near future.

If your agency would like to learn more about Yucaipa Valley Water District’s Urban Water Management Plan, please contact Jennifer Ares at (909) 790-3301.

Sincerely,

Jennifer Ares  
Water Resource Manager





**Date:** March 2, 2016

**Prepared By:** Bob Wall, Operations Manager

**Subject:** Notice of Completion for the Contract with J Colon Coatings for the Pipeline Coating Repairs at the Yucaipa Valley Regional Water Filtration Facility - Crystal Creek

**Recommendation:** That the Board authorizes the filing of the Notice of Completion and release of the retention amount of \$3,206.25 thirty-five days after the recorded date.

At the regular meeting on December 16<sup>th</sup>, 2015, the Board awarded a contract to J Colon Coatings Inc. for the Coating Repair in the Crystal Creek 48" Inlet Piping. Change Order No. 1 changed the contract amount from \$61,215.00 to \$64,125.00 for a change of \$2,910.00.

	Contract Changes	Contract Amount	Percentage Change from Original Bid Amount	Reference
Original Bid Amount		\$61,215.00	--	DM 15-112
Change Order No. 1	\$2,910.00	\$64,125.00	4.7%	DM 16-027

The project is now complete and the District staff recommends that the Board authorizes the filing of the Notice of Completion and release of the retention amount of \$3,206.25 thirty-five days after the recorded date.

Record Without Fee  
Per Govt. Code 6103

Recording Requested By:  
Yucaipa Valley Water District

And When Recorded Mail To:  
Yucaipa Valley Water District  
P.O. Box 730  
Yucaipa, CA 92399

SPACE ABOVE THIS LINE FOR RECORDERS USE

**NOTICE OF COMPLETION**

Project Number/CMMS Number: DM-15-112  
Director Memorandum Number for Authorization: DM 16-  
Director Memorandum Number for Notice of Completion: DM 16-

Notice pursuant to Civil Code Section 3093, must be filed within 10 days after completion.

Notice is hereby given that:

1. The undersigned is owner or corporate officer of the owner of the interest in the property hereinafter described:
2. The full name of the owner is Yucaipa Valley Water District
3. The full address of the owner is 12770 Second Street, Yucaipa, CA 92399
4. The Nature of the Interest or Estate of the Undersigned is: In Fee
5. A work performed hereinafter described was completed on 2-14-2016. The work done was: Coating Repair in the Crystal Creek 48" Inlet Pipeline
6. The name of the contractor for such work was: J Colon Coatings Inc.

7. The property on which said work was complete in the City of Yucaipa (Date of Contract)  
County of San Bernardino, State of CA, and is described as APN: \_\_\_\_\_
8. The street address of said property is 35477 Oak Glen Rd. Yucaipa California 92399

(if no street address has been assigned, insert "none")

Dated 2-22-2016

**Verification**

I, the undersigned, say: I am the General Manager of the Declarant of the foregoing Notice of Completion; I have read said Notice of Completion and know the comments thereof; the same is true to my knowledge. I declare under penalty of perjury that the foregoing is true and correct.

Executed on \_\_\_\_\_, 2016 at Yucaipa, CA.

\_\_\_\_\_  
Joseph B. Zoba, General Manager  
Yucaipa Valley Water District

Director Memorandum 15-112

PAGE 1 OF 2

CONTRACT CHANGE ORDER NO. 1

CONTRACT Coating Repair in the Crystal Creek 48" Welded Steel Inlet Piping DATED January 4<sup>th</sup>  
 BY AND BETWEEN Yucaipa Valley Water District  
 AND J Colon Coatings Inc. is hereby directed to make the following change(s) in Contract Work:

ITEM NO.	DESCRIPTION OF CHANGE	DECREASE \$	INCREASE \$
104	Increase from 500 spot repair units at \$30.00 each to 1070 Units at \$30.00 each.		\$17,100.00
105	Decrease from 125 L.F. of joint repair at \$39.00 to 75 L.F	\$1,950.00	
107	Decrease recoat delamination repairs from 20 at \$342.00 each to 0	\$6,840.00	
1A	Dehumidification was not used	\$5,400.00	

Total DECREASE in Contract Amount	<u>\$14,190.00</u>
Total INCREASE in Contract Amount	<u>\$17,100.00</u>
Net change in Contract Amount	<u>\$2,910.00</u>
Contract Amount Prior to Change	<u>\$61,215.00</u>
Contract Amount Adjusted for Change	<u>\$64,125.00</u>

Rev 0614

Change Order Form S-1



CONTRACT CHANGE ORDER NO. 1

PAGE 2 OF 2

By reason of Change Order No. 1, time of completion shall be adjusted as follows:

0 Working Days. Adjusted Contract Completion Date shall be NA.

All provisions of the Contract shall apply hereto, and shall become effective when fully executed (signed and dated) by both parties.

Recommended by (Operations Manager) \_\_\_\_\_ Date: \_\_\_\_\_

Accepted by (Contractor) \_\_\_\_\_ Date: \_\_\_\_\_

Approved by (Owner) \_\_\_\_\_ Date: \_\_\_\_\_

Remarks \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



**Date:** March 2, 2016

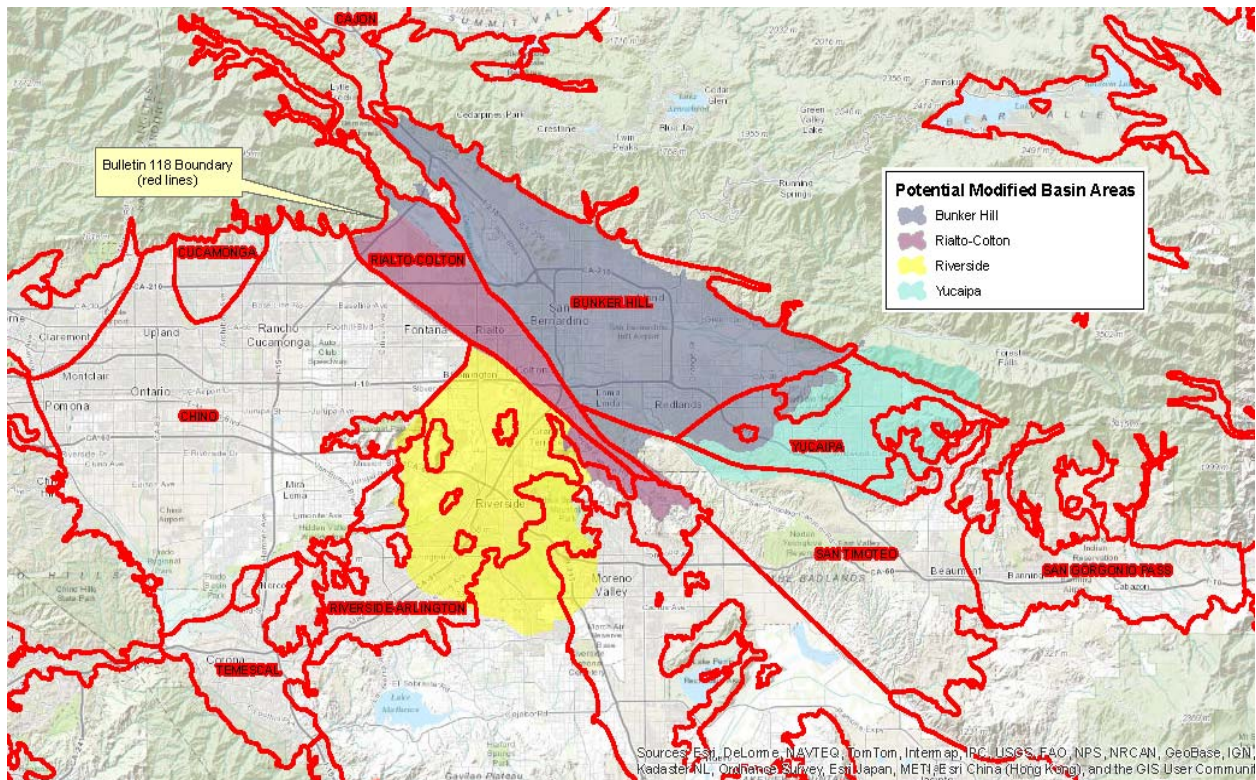
**Prepared By:** Joseph Zoba, General Manager

**Subject:** Consideration of Resolution No. 2016-12 Authorizing the General Manager to file a Basin Boundary Modification Request to the Department of Water Resources for the El Casco Basin Pursuant to the Sustainable Groundwater Management Act

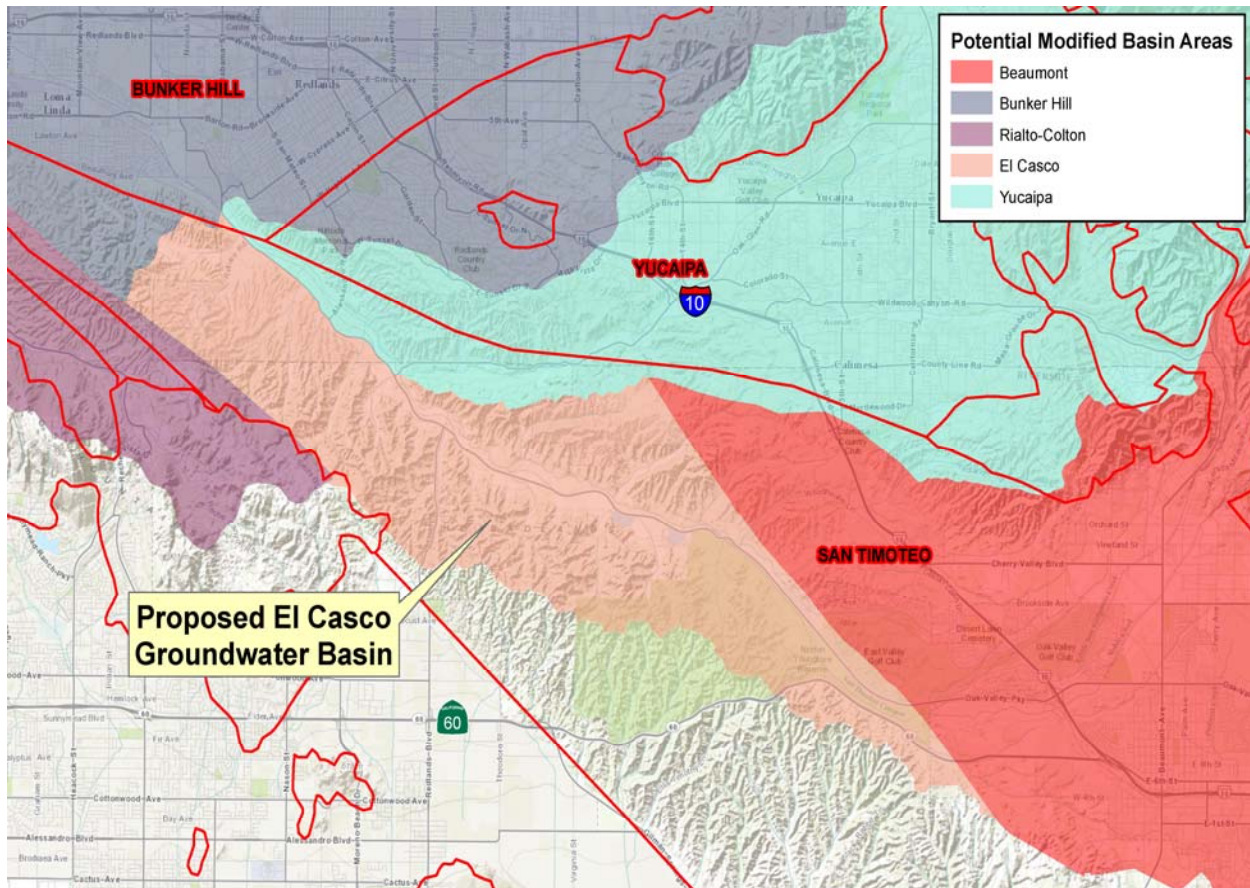
**Recommendation:** That the Board adopts Resolution No. 2016-12 as presented.

Late last year, the Yucaipa Valley Water District led a regional, collaborative effort to develop basin boundary lines for the Yucaipa, San Timoteo, Beaumont, and San Gorgonio Pass basins. The San Bernardino Valley Municipal Water District actively participated in these meetings by providing administrative GIS support.

On February 16, 2016, the San Bernardino Valley Municipal Water District adopted Resolution No. 1037 that authorized the submittal of a basin boundary modification request to the Department of Water Resources for the San Bernardino Basin Area, Colton Basin Area, Riverside Basin, and Yucaipa Basin Area. The resolution was coordinated with the retail water suppliers in the area.



The basin boundary modifications proposed by the San Bernardino Valley Municipal Water District coupled with the adjudicated basin boundary of the Beaumont Basin Watermaster will leave the El Casco groundwater basin as shown below.



On Wednesday, February 24, 2016, the Yucaipa Valley Water District conducted a manager meeting with other regional and local water suppliers and discussed the District's intent to file on the proposed El Casco Basin since the long-term sustainability of this groundwater basin is critically important to the Yucaipa Valley Water District. There was no objection from the participating agencies.

Therefore District staff recommends the adoption of Resolution No. 2016-12 as presented.



**RESOLUTION NO 2016-12****A RESOLUTION OF THE YUCAIPA VALLEY WATER DISTRICT  
TO SUBMIT A BASIN BOUNDARY MODIFICATION REQUEST TO THE DEPARTMENT OF  
WATER RESOURCES FOR THE EL CASCO BASINS PURSUANT TO THE SUSTAINABLE  
GROUNDWATER MANAGEMENT ACT**

**WHEREAS**, the California Department of Water Resources (DWR) prepared Groundwater Basins in California, Bulletin 118-80, a report on groundwater basins throughout the State of California in 1980;

**WHEREAS**, Bulletin 118-80 was updated in 2003 and is now titled California's Groundwater, Bulletin 118;

**WHEREAS**, the Sustainable Groundwater Management Act (SGMA) was adopted in 2014 and allows agencies to submit proposed groundwater basin boundary modifications;

**WHEREAS**, the San Bernardino Valley Municipal Water District, in cooperation with many retail water agencies within its service area have worked together to develop proposed groundwater basin boundary revisions to be submitted under SGMA;

**WHEREAS**, the proposed groundwater basin boundary modifications for the Riverside-Arlington, Rialto-Colton and Bunker Hill Basins are being recommended to make the Bulletin 118 boundaries more consistent with the adjudicated basin boundaries provided in the 1969 Western-San Bernardino Judgment and to close gaps between adjacent basins;

**WHEREAS**, the proposed groundwater basin boundary modifications for the Yucaipa Basin are being recommended to be more consistent with the Yucaipa Basin watershed boundary and to close gaps between adjacent basins;

**WHEREAS**, the Yucaipa Valley Water District, in cooperation with many retail water agencies it's the area have worked together to develop proposed groundwater basin boundary revisions to be submitted under SGMA;

**WHEREAS**, the Yucaipa Valley Water District recognizes the importance of modifying the proposed boundary of the El Casco groundwater basin as a direct result of the proposed boundary modifications to the Yucaipa Basin and the adjudicated boundary of the Beaumont Basin.

**NOW, THEREFORE, BE IT RESOLVED** by the Board of Directors, that the Yucaipa Valley Water District that the Board of Directors of the Yucaipa Valley Water District does hereby direct that the proposed groundwater basin boundary modification request for the El Casco Basin be submitted to the Department of Water Resources.

PASSED, APPROVED and ADOPTED this 2<sup>nd</sup> day of March 2016.

YUCAIPA VALLEY WATER DISTRICT

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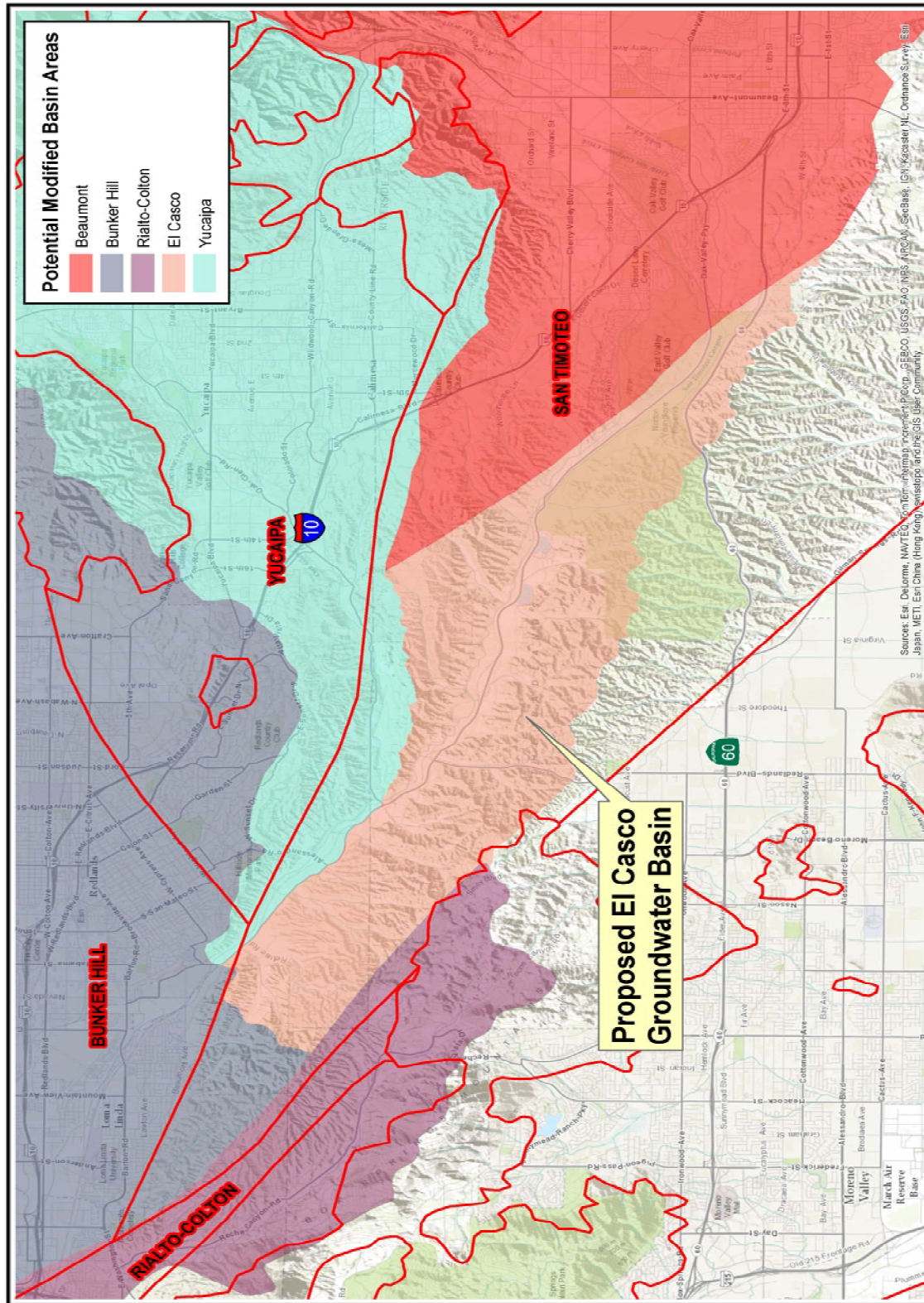
Lonni Granlund, President Board of Directors

ATTEST:

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Joseph B. Zoba, General Manager

### Exhibit "A"



CA DWR Bulletin 118 Groundwater Basins  
Potential Basin Boundary Modification Requests





**Date:** March 2, 2016

**Prepared By:** Joseph Zoba, General Manager

**Subject:** Authorization to Purchase 1,000 Additional Weather Based, Wi-Fi Irrigation Controllers from Skydrop for Residential Water Customers of the Yucaipa Valley Water District

**Recommendation:** That the Board authorizes the District staff to: (1) implement the necessary policies, procedures and priorities to distribute weather-based irrigation controllers for residential water customers pursuant to the State Water Resources Control Board Emergency Regulations and related Executive Orders by Governor Brown; (2) contract with Skydrop for the purchase of irrigation controllers and related equipment for the installation of 500 additional controllers; (3) provide regular updates on the status of this water conservation program; and (4) authorize the General Manager to amend or terminate the implementation of this program at any time.

A report from the California Urban Water Conservation Council, *Turf Removal and Replacement: Lessons Learned*, describes program implementation and estimated water savings from turf-based water conservation programs. The report offers qualitative and quantitative context for turf-removal programs, describes the challenges of program implementation and provides guidance to optimize program outcomes.

Turf-based landscape programs involve two steps: turf removal and turf replacement. The results of this type of water conservation program are highly variable based on customers' aesthetic desires, location, financial commitment, and the availability of landscape materials. The report found that the average rebate resulted in a cost of about \$1,500 per acre foot of water saved. As public agencies continue to support, fund and implement turf removal programs during this drought, it is important to continue to review and evaluate the success of these programs to ensure policies are implemented in a manner that fully protect the funds ratepayers entrust with governmental agencies.

Appendix A of the report provides an overall evaluation of the cost effectiveness of various water conservation programs which range from \$91 per acre foot of water saved to about \$1,700 per

## Turf Removal & Replacement: Lessons Learned

March, 2015  
Author: Briana Seapy



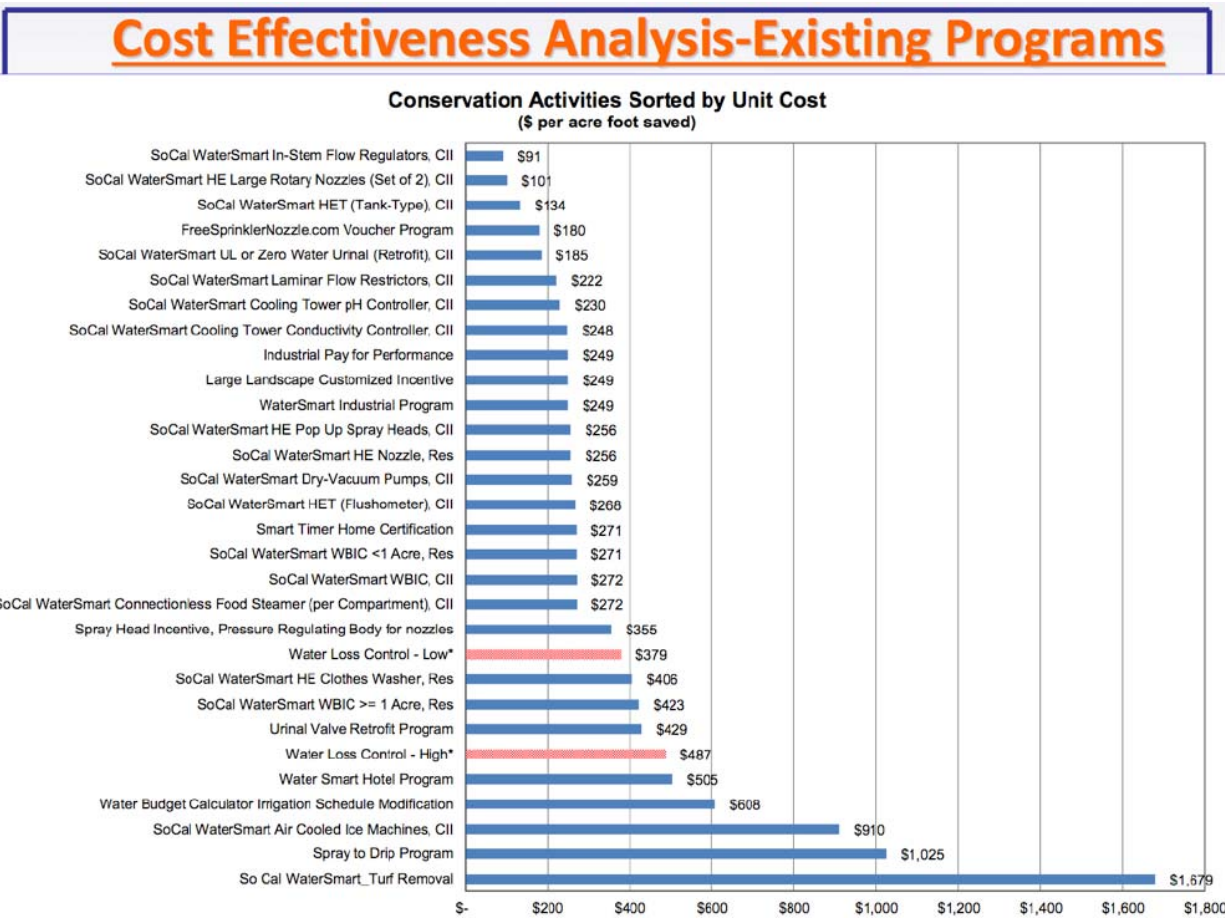
California Urban Water Conservation Council



acre foot of water saved. The water conservation programs at the top of the chart would be considered more effective than the water conservation programs at the bottom of the chart.

### Appendix A: Conservation Program Cost Effectiveness

The following chart, created using the *Alliance for Water Efficiency's Water Conservation Tracking Tool* and presented by Joe Berg from the Municipal Water District of Orange County at the 2014 WaterSmart Innovations Conference, details the relative cost per acre foot (AF) of water saved for various water conservation programs. The turf rebate program value is found at the bottom of the chart, indicating that it is the most expensive program alternative evaluated in this study with a cost of \$1,679/AF water saved. It should be noted that since 2014, cost effectiveness numbers may have changed.



An audit report released by Ron Galperin, Controller for the City of Los Angeles on November 20, 2015, found that the “turf replacement program gave DWP the lowest return on investment, in terms of gallons of water saved per dollar spent, than other conservation programs by a wide margin. Auditors calculated the DWP spent nearly \$16 million on non-turf replacement programs in FY 2014-15 that were expected to save between 1,717 and 7,728 gallons per dollar over their estimated lifetimes. Turf replacement programs, on the other hand, were expected to save only an estimated 350 gallons per dollar spent over the lifetime of DWP’s nearly \$18 million investment in FY 2014-15”.



The Yucaipa Valley Water District Approach

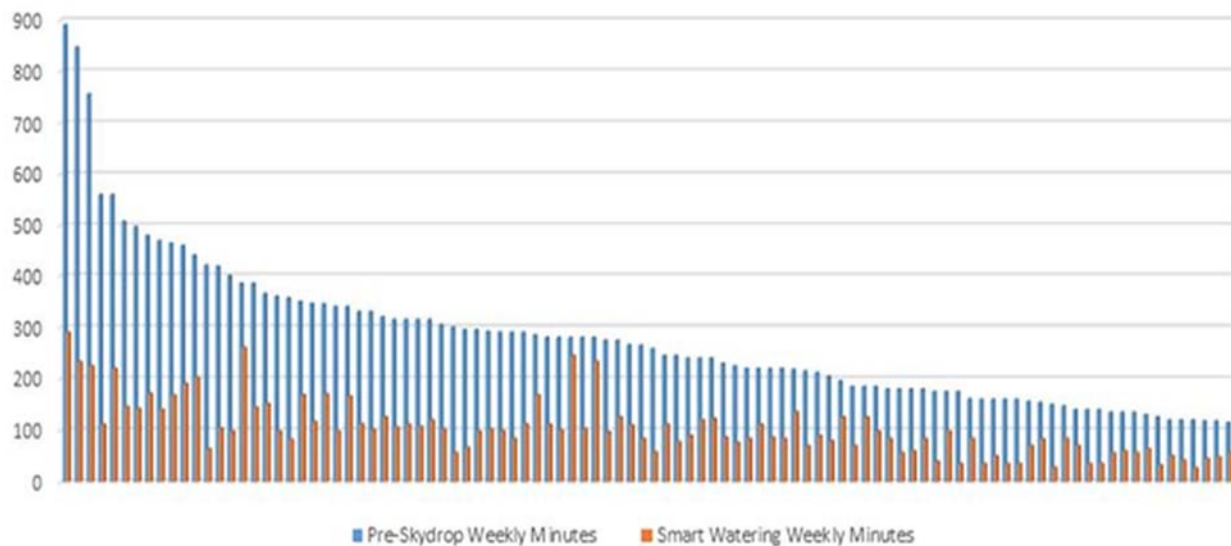
In response to the drought, the Yucaipa Valley Water District implemented a multi-prong approach to achieve a 36% water conservation goal set by the State Water Resources Control Board. While we continuously review all programs, we have identified that the use of Wi-Fi based irrigation controllers for residential water customers has the ability to quickly reduce our drinking water demands in a cost effective manner.

At the board workshop on April 28, 2015, the District staff demonstrated how the Wi-Fi based irrigation controller developed by Skydrop uses a home Wi-Fi system to provide localized weather data to control the amount of water used for outdoor irrigation. This technology will automatically adjust irrigation sprinklers to reduce the amount of water used when it is not needed based on weather conditions, soil type, sprinkler type and even landscaped slopes.

Typically, irrigation accounts for 60% to 70% of the total residential water demands each year. If the Wi-Fi-based irrigation controllers can increase irrigation efficiency and reduce outdoor irrigation water by 50%, then we are well on our way to meet the Governor’s call for a 36% water reduction in our service area.

Based on installations of the Skydrop system, the technicians working on the project tracked the difference between irrigation system runtime minutes per zone for 100 homes. The chart below shows the total number of irrigation minutes per customer for their existing irrigation time (blue) compared to the total number of irrigation minutes per customer for the Skydrop system (orange).

Yucaipa Last 3 Weeks



This data shows that the existing/old irrigation timers were programmed to provide 27,955 minutes of irrigation water compared to the Skydrop controllers providing 10,396 minutes of irrigation water. Assuming a delivery rate of 14 gallons per zonal minute, the old irrigation timers would deliver 391,370 gallons of water compared to 145,544 gallons of water from the Skydrop system. The Skydrop system further improves upon this estimation due to its ability to only run specific zones and not all zones that are commonly programmed into older irrigation timers.

While other communities are responding to the drought by providing rebates for turf removal and landscaping changes, the District will need to pursue an alternative that is quickly implemented and can be widely distributed throughout our service area. While turf removal programs cost about \$1,500 per acre foot of water saved, the Wi-Fi based irrigation controller will cost about \$155 per acre foot of water saved.

During this agenda item, the District staff will present the implementation plan to facilitate the distribution of the irrigation controllers to residential customers with the purchase of 500 additional Skydrop units plus an additional 500 Skydrop units to be distributed to the highest residential water customers that do not currently have the device installed.

Funding for this purchase will require an authorization for approximately \$250,000 from water depreciation reserves. The non-specificity of the actual amount is due to the uncertainty associated with expansion units that are required in some cases.

The regulatory requirements associated with these water conservation expenditures are tracked as GL 02-10310.



## Smart Sprinkler Controller

If you are frustrated with you current controller, tired of fighting with outdated user interfaces and confusing programming menus, the Skydrop WiFi controller will revolutionize the way you approach your home and garden irrigation.

Skydrop is more intelligent than other so-called "smart-controllers"; doing more than simply turning sprinkler zones on-and-off at programmed times the way most controllers do, built from the ground up to be an all-in-one solution for all your irrigation and conservation needs.



Not only is the Skydrop WiFi Smart controller the smartest piece of technology in your yard, it's also the most attractive! The contemporary design incorporates modern aesthetics with practical functionality. Skydrop's alloy metal wheel is actually the controllers input interface, making programming the device slick and intuitive to operate. Skydrop's ultra-smooth motion of the wheel gliding underhand feels great reflecting the solid build quality and thoughtful design.

If you already have a sprinkler controller the Skydrop is a cinch to swap out. Anyone with a screwdriver and 30-minutes can have a Skydrop up and running in their yard, saving them time and money immediately.

### WHAT'S IN THE BOX?

- Skydrop smart sprinkler controller with 4.3" LCD screen
- Wall Plate featuring tool free wiring
- Installation Guide
- 24 VAC power supply
- Mounting screws for wood / drywall

### FEATURES & BENEFITS

- 8 Station Smart Controller plus Master Valve / Pump
- Expandable to 16 Stations with expansion unit (Coming Soon)
- Makes adjustments to comply with regional watering restrictions
- Connects to real time hyper-local weather reports and forecasts
- Adapts the watering schedule based on variable inputs
- Can be controlled from any web-enabled device or computer

### TECHNICAL SPECS

- 8 Station Smart Controller plus Master Valve / Pump
- Expandable to 16 Stations with expansion unit (Coming Soon)
- Makes adjustments to comply with regional watering restrictions
- Connects to real time hyper-local weather reports and forecasts
- Adapts the watering schedule based on variable inputs
- Can be controlled from any web-enabled device or computer

### NETWORKING

- 802.11b
- 802.11g
- 802.11n (2.4 Ghz only)



# skydrop™ Anywhere Access



### ACCESS FROM ANY WEB-ENABLED DEVICE

You can manage your Skydrop smart controller using the controller itself, your preferred mobile device, or web browser. By connecting the Skydrop controller to your Wi-Fi network you can change settings or water at any time or any place.

### WI-FI ENABLED

By connecting the Skydrop WiFi controller to your Wi-Fi network Skydrop WiFi Timer you can change settings or water your landscape or lawn at any time or from any place.



### AUTOMATED WATERING

No one has time to be constantly adjusting and updating the water schedule for their lawn. Skydrops' proprietary algorithm gathers a variety of hyper-local data points creating from them a comprehensive and efficient watering schedule – dynamically adapting schedules without any intervention on your part throughout the season.

### BEAUTIFULLY SIMPLE

The beautifully simple user interface makes Skydrop easy to navigate and setup. Gone are the days of struggling to understand and setup your lawn's irrigation. Skydrop can help you take back control of your yard, once and for all.





# skydrop<sup>™</sup> is Environment Friendly

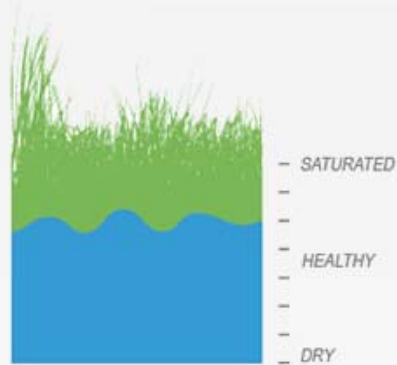
## SKYDROP SAVES WATER & MONEY

Local weather changes can have drastic, daily implications on how much water is needed for any lawn or landscape. Skydrop automatically adjusts watering schedules to reduce wasteful watering, which will save you water and money.



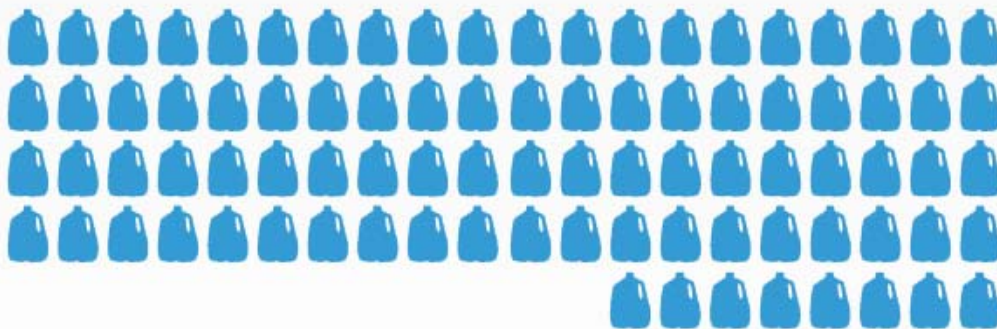
### NO MORE WASTEFUL WATERING

Nothing is more wasteful than having your sprinklers on while it's raining. It's bad for the environment, and it costs you money!



## WATER SMARTER

The Skydrop WiFi Smart controller helps you determine how much water your lawn needs. It actually calculates how much moisture your lawn is losing each day, and sets watering times accordingly, making sure your grass always has the optimum amount of water it needs to stay green and healthy.



## IMAGINE USING 50% LESS WATER

The EPA estimates that about 30% of a household's water is used for irrigation. Over 50% of that irrigation water is wasted through over watering and evaporation. With Skydrop, those inefficiencies will be reduced by up to 50% by watering only by need, rather than watering by a set weekly schedule.



## General FAQs

Below, you can find frequently asked questions about the skydrop smarter watering sprinkler controller and it's associated functionality.

### How many zones can the Skydrop Controller manage?

The standard Skydrop Controller is able to manage up to 8-zones. With Skydrop Expansion module an addition of 8-zones can be managed, for a total of 16-zones.

### Where does the Skydrop Controller get its weather data?

Skydrop utilizes your Wifi connection to the Skydrop cloud and our network of weather stations. The Skydrop cloud service constantly monitors real-time weather in your specific location and determines the optimal watering schedule based on what the



weather conditions.

### How is the Skydrop Controller installed?

Skydrop is very simple to install. It replaces your existing sprinkler timer, and the existing valve wires will plug directly into your new Skydrop Controller. Once you power up the controller for the first time, it will guide you through a WiFi connection setup process. Once connected to WiFi, it will gather weather data from the cloud, and also allows you to manage your system from a smartphone or computer.

View the for details or view the [Installation Video](#).

### Can I manage settings differently for each zone?

Yes, each controller valve wire corresponds to a different zone. When you first setup



your zones, Skydrop will ask questions regarding that particular condition or each zone. These conditions consist of soil, sprinkler, plant type, slope, shade, etc.

#### Which mobile devices are currently compatible with Skydrop?

Any Apple device running iOS 6.0 or newer & Android device running 4.0 (ice cream sandwich) or newer.

#### How can I download or update my Skydrop App?

The app can be downloaded through [links on our website](#). It is also available from the Apple App Store or Google Play store, by searching "Skydrop Mobile". The app will prompt for regular updates as with any 3rd party app on your smartphone or tablet.

#### Do I need a mobile device, smartphone or browser to use Skydrop?

No. Skydrop can be controlled using the jog-dial & LCD screen on the device itself. Control can be accessed additionally from a computer, smartphone or tablet.

\*Some advanced settings are available only via a browser or the app.

#### Are there any additional fees or costs associated with the Skydrop Controller?

No. There are no additional fees or costs associated with the purchase or use of the controller. The manufacturer suggested retail price of the controller is \$299.00 + tax.

#### Am I able to integrate my own personal weather station into the Skydrop Controller?

The controller cannot integrate with personal weather stations directly. Skydrop pulls hyper-local weather data for your controller from our vast network of weather stations near you. However, the ability to connect to a personal weather station linked to the [Weather Underground PWS Network](#) is in development and should be available in the second quarter of 2015.

#### How do I set up my Skydrop Controller account?

You can create a new account or login to an existing Skydrop account by going to [my.skydrop.com](http://my.skydrop.com) or accessing the Skydrop Mobile app. Creating & accessing a personal Skydrop account will give you the ability to manage your sprinkler system remotely.

#### What type of power supply does Skydrop use?

The controller uses a 24V AC power supply. It is a small module which plugs directly into an AC socket, commonly known as a "wall wart."

#### Does the controller add to my existing system or does it replace what I have?

The Skydrop controller will replace your existing sprinkler control system, but not existing valves or wires.

#### What browsers does the Skydrop web interface ([my.skydrop.com](http://my.skydrop.com)) support?

Chrome, Safari & Firefox (IE9 or newer)

### Can the Skydrop Controller be installed outside?

The device is built for indoor installation, but can be installed outdoors with use of an outdoor housing. Skydrop will be releasing an outdoor housing, which will be available in the later half of 2015.



### Does the Skydrop Controller have lightning strike and EMI protection?

Yes. The Skydrop Controller is resistant to interference and meets all FCC standards for unintentional EMI radiation. Skydrop has built-in circuitry to protect against lightning strikes.

### Is the Controller heat & cold resistant?

The Skydrop Controller is designed for indoor use (including the garage). Temperature resistance is a maximum 85C and minimum of -20C.

### Can I set specific watering instructions on my Controller?

Yes. Skydrop's smart watering system allows you to set specific schedules based on day, time, duration or local watering restrictions.

### How do I report a problem?

You can reach us by any of the following Support methods:

email – [support@skydrop.com](mailto:support@skydrop.com)

chat – <http://www.skydrop.com/>

call – [1-844-SKYDROP](tel:1-844-SKYDROP) (844-759-3767)

### How does Skydrop make water conservation better than other “smart” controllers?

The Skydrop controller will anticipate watering needs based on future weather predictions. These weather updates are analyzed several times per day to ensure the greatest accuracy for your lawns watering needs. In addition, after the initial setup, the Skydrop controller enters a learning period where it will send notifications requesting feedback. With this information, Skydrop fine tunes the schedule and maximizes efficiency. See the article “[How skydrop smart watering works](#)” for additional details on our smart watering methodology.

### Does Skydrop help conserve water?

The EPA estimates that about 30% of a household's water is used for irrigation. Over 50% of that irrigation water is wasted through overwatering and evaporation. With Skydrop, those inefficiencies will be reduced by up to 50% by watering only based on need, rather than watering by a set weekly schedule.

### Why is water conservation so important?

With water use in the United States increasing every year, many regions are starting to feel the pressure. In the last five years, nearly every region of the country has experienced a water shortage. At least 36 states are anticipating local, regional, or statewide water shortages by 2013, even under non-drought conditions. Most of these municipalities are placing restrictions on watering to combat drought conditions.

### What happens if Skydrop loses its Internet connection?

If you have been connected to the Skydrop cloud service at any time, the controller will use a backup watering schedule based on the device's history. This schedule lacks the day-to-day smart watering intelligence, but will still operate using seasonal adjustments provided by historical data. If Skydrop does not have an active Internet connection, you will not be able to access your controller using a mobile device or web browser.



RON GALPERIN  
CONTROLLER

November 20, 2015

Honorable Eric Garcetti, Mayor  
Honorable Michael Feuer, City Attorney  
Honorable Members of the Los Angeles City Council  
All Angelenos

**Re: Audit of DWP Customer-Based Water Conservation Programs**

Dear Colleagues and Fellow Angelenos:

As we prepare for the possibility of heavy rains this winter, we should keep in mind that El Nino-produced storms in California could bring us only a temporary respite from a protracted drought. Droughts are to be expected in our state and scientists have found evidence from centuries ago that some of them have lasted for decades. As temperatures rise due to climate change, our natural weather cycles are expected to become more extreme.

Currently, City of Los Angeles customers of the Department of Water and Power (DWP) use more than 435 million gallons of water per day, 85% of which comes from hundreds of miles away. Stocks we depend on from Northern California, the Eastern Sierras and the Colorado River have been diminishing. Last year, California's snowpack was only 35% of normal. This year, it peaked at 17% of normal, a modern-record low.

What if those conditions persisted for a long while? How would we continue to quench the thirst of our semi-arid City of 4 million people and our region of more than 20 million? Hence the imperatives that we reduce our dependence on far-away supplies and our uses thereof.

**Our Record of Conservation So Far**

As a community, Angelenos have responded with extraordinary verve to calls to cut back on water use from the Governor and Mayor. Collectively, Los Angeles City

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AN EQUAL EMPLOYMENT OPPORTUNITY – AFFIRMATIVE ACTION EMPLOYER

Honorable Eric Garcetti, Mayor  
Honorable Michael Feuer, City Attorney  
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customers have cut back on water use by nearly 17% during the last two years, reducing average per person daily consumption from 131 gallons to 109. This is truly remarkable, given that, before these cuts, we were already using the same amount of water we did when there were a million fewer of us.

Today, I am releasing an audit that examines various customer incentive and rebate programs under the auspices of the DWP, which spent \$24.7 million on such programs in FY 2013-14 and \$40.2 million in FY 2014-15. This year's DWP budget calls for spending \$59 million on water conservation programs. Our principal water wholesaler, the Metropolitan Water District, has also increased its spending on such programs. MWD, which spent only \$18 million on rebates and incentives in all of Southern California in Fiscal Year 2013-14, increased that to \$131 million in FY 2014-15, of which \$43 million went to pay for rebates and incentives in the City of Los Angeles alone.

Earlier this year, MWD added more than \$300 million for all of Southern California. These expenditures covered the costs of providing customers with free water-saving devices such as faucet aerators and low flow showerheads, providing customers with rebates for installing low-flow toilets and washing machines, and for replacing water-hungry lawns with more drought tolerant landscapes.

DWP reported that, as a result of its direct water conservation programs, 4,210 acre-feet of water were saved in Fiscal Year 2013-14. That works out to about one gallon per capita per day. In Fiscal Year 2014-15, DWP reported saving 7,197 acre-feet of water, which works out to 1.6 gallons per capita per day. The DWP's turf replacement program, which saved the second most water among DWP's four financial incentive programs, accounted for water savings of about half a gallon per person per day. During this same period, Angelenos voluntarily cut their overall water use by 22 gallons per person per day.

One can't help but think that the direct savings from the rebate programs were a relative drop in the bucket.

### **DWP's Turf Replacement Investment Was Largely a Gimmick**

Auditors found that DWP does not adequately prioritize water conservation projects based on which are the most cost effective. The key component of DWP's conservation program last year--turf replacement--targeted outdoor water use, which constitutes about half of residential water use. But evidence suggests that the turf replacement program, called "Cash in Your Lawn," was largely a gimmick--a device intended to attract attention and publicity.

It in some ways worked as intended. By paying more to provide customers an initial opportunity to get involved in water conservation--in hopes that participation and



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behavior might continue--it had value as an advertising campaign that helped stimulate major public interest in the drought. But this came at a rather high cost and, arguably at the cost of some fairness. Aid was distributed Citywide but was most concentrated in the western San Fernando Valley. As well as ordinary ratepayers, beneficiaries included some affluent households and some private golf courses. One particular contractor benefited handsomely.

If money is no object, turf replacement rebates are a relatively expedient way to save substantial amounts of water, But, of course, money is an object. Auditors found that the turf replacement program gave DWP the lowest return on investment, in terms of gallons of water saved per dollar spent, than other conservation programs, by a wide margin. Auditors calculated that DWP spent nearly \$16 million on *non-turf replacement programs* in FY 2014-15 that were expected to save between 1,717 and 7,278 gallons per dollar over their estimated lifetimes. Turf replacement programs, on the other hand, were expected to save only an estimated 350 gallons per dollar spent over the lifetime of DWP's nearly \$18 million investment in FY 2014-15. (These expenses do not include administrative and certain other costs.) That does not take into account the cost of additional turf replacement rebates paid by the MWD. These lifetime estimates are based on DWP's reports of its spending and estimates of the life expectancy of residential turf replacement (forecast at 10 years) versus the life expectancy of other major rebate programs (forecast at up to 19 years).

### **How Interest in Turf Rebates Swelled and Fell Off**

The turf replacement program, which had been around for several years, attracted little attention until last Fall when both DWP and MWD dramatically raised the amounts of rebates they were offering. MWD doubled its rebate from \$1 to \$2 per square foot of residential lawns removed. DWP increased its rebate from \$1 per square foot to \$1.75. Thus, homeowners could claim combined rebates of up to \$3.75 per square foot for replacing lawns with gravel, drought resistant plants and/or artificial turf. A similar pattern held true for lawn replacements for businesses, which were paid up to \$3 per square foot from both agencies combined. This did not reflect ratepayers' total costs. Since DWP ratepayers pay MWD for the water DWP purchases, part of what MWD offered DWP customers in rebates originated with DWP ratepayers.

Here is a breakdown of the program's trajectory to date. DWP statistics show that less than one percent of all DWP's 700,000 residential and commercial customers received turf replacement rebates during the two most recently completed fiscal years. In FY 2013-14, 1,236 residential customers and 14 business customers received them. But those numbers surged in FY 2014-15, when 5,320 residential customers and 106 business customers received the rebates. In the first two months of this fiscal year, DWP reported those numbers continued to grow, with an additional 2,579 residential



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customers and 28 businesses receiving checks for completed projects. That extended the turf rebate participation rate to two percent of DWP's approximately 480,000 *residential* customers. To be fair, that number does not fully reflect the program's appeal in that it does not count an additional 24,093 DWP residential customers whose applications are still in queue, according to the MWD. If two-thirds of those customers follow through on their projects that would appreciably boost participation to almost seven percent of DWP residential customers.

The California Urban Water Conservation Council estimates that there are 2.5 million acres of turf grass in California. If we were to take the turf replacement rebate program to its logical extreme, and issue rebates of \$3 per square foot to replace all of that, we would have to spend \$403 billion, which is about two thirds of the national defense budget.

My office believes that transparency is important and that public monies used for incentives should be a matter of public record. DWP, however, has not released detailed information about who the turf rebate recipients are, citing ratepayers' privacy rights. MWD, however, has released information about DWP customers receiving rebates, with names and precise addresses redacted. In the case of customers of most other Southern California water agencies outside the City of Los Angeles, MWD has also provided names. Disclosures of who received turf replacement rebates in these jurisdictions outside the City have shown that recipients have included owners of high-value residences as well as exclusive country clubs. Some private golf courses are known to have been recipients in the City as well.

Last year, seeking to spike interest in conservation, MWD tapped its reserves and appropriated a two-year total of \$450 million for water conservation incentives and rebates for Fiscal Years 2014-15 and 2015-16. By this month, MWD reported that it had spent or committed almost all of that money. It had paid out or was committed to pay out \$277 million throughout Southern California for turf replacement rebates alone. MWD has stopped taking new applications for them. But DWP is still offering \$1.75 per square foot. Officials told my office, however, that, since MWD dropped out, applications by DWP ratepayers have dropped off by 80%.

Turf replacement rebates may have helped to alter cultural norms for the better as neighbors eyed one another's newly landscaped yards, but there have been criticisms too--including observations that surfaces such as gravel and artificial turf increase surface temperatures and promote a lack of watering that can kill nearby trees dependent on residual water from lawns.

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### **A Sobering and Encouraging Review**

In examining this program and DWP's various other incentives—including less expensive, longstanding and more cost-effective rebates for low-flow toilets and efficient washing machines—my office received information that was both sobering and encouraging. The sobering part was that all of DWP's incentive programs combined cut per capita water use by only 2.6 gallons per day over two years.

The encouraging part was that, during the same period, Angelenos voluntarily cut their overall water use by a remarkable 22 gallons per person per day. That means Angelenos, acting without special financial incentives, accounted for 88% of the cuts in reducing per capita daily use. This has been an overwhelmingly civic-minded response. It also suggests, as our audit indicates, that public education about the need to conserve can be an even more powerful tool than financial incentives.

### **Giving Ratepayers More Choices**

Ironically, increased conservation has meant that DWP took in less money than expected. The utility announced last month that it would have to implement a small upward rate adjustment to make up the difference and keep the system running. The DWP is also seeking a longer-term rate increase that will ask all of us to pay more.

As an alternative to current rebate and incentive programs, what if we were to let creativity reign and structure financial incentives beyond the current two-tiered and even the proposed four-tiered system of rates? We could reward ratepayers for using less water, however they accomplished it, regardless of whether they participated in a formal rebate program. In other words, what if we were to promote more choices?

That might stimulate even more interest in conservation. But for a program like that to flourish, ratepayers would need to be able to measure their own progress on a daily--or even a minute to minute basis. The technology to do that is available, but not in use.

### **Meters and Submeters**

Practically speaking, it is very difficult for ratepayers now to monitor their usage effectively. Current water meters record usage only in 7.48 gallon increments and bi-monthly water bills, only in 748 gallon increments. It's difficult to get immediate gratification from, say, taking a shorter shower when you can't figure out how much water—and money—you saved. But so-called "smart meters" and submetering technologies exist that could measure in much smaller increments and give instant feedback to ratepayers and to utility billing systems capable of generating discounts..

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Smart meters and submeters rely on WiFi or cell phone technologies to communicate directly to utilities and customers, who can access the information in real time on their computers and smartphones.

Some other major water systems around the country and state have already started installing smart meters. But DWP, the nation's largest municipal utility, is behind. DWP's electrical power side, which is its biggest revenue generator, is unfortunately thinking of installing smart meters that won't work for the water side. The electrical side may have unique needs, but installing smart electric meters, without having smart water metering technology, would be a terribly missed opportunity.

Further, I suggest that DWP explore providing incentives for the installation of water meters or submeters for more tenant households. DWP reports that it has about 700,000 meters but there are about 1.4 million households in the City. Households that don't have meters are typically in multi-unit buildings with only one meter per building. Using smart meters or submeters in individual apartments would provide a way for these households too to keep tabs on how much they use.

### **How Do We Increase Our Supply of Water?**

We draw only about 11% of our water from our principal local source--an underground water basin that covers much of the San Fernando Valley. This aquifer, called the San Fernando Groundwater Basin, is currently so polluted that less than one third of the DWP's 115 wells can be used. It has been polluted since the 1940s when a largely unregulated aircraft industry dumped contaminants without due care. Efforts to clean this up, which have been going on for decades, have not yet succeeded in containing the spread of the underground contaminated plume.

Our primary sources for water are hundreds of miles away. We have had to reduce the amount of water we take from the Owens Valley, a source near the Eastern Sierras, because of adverse environmental impacts. Our other major northern California source, the Sacramento-San Joaquin Delta, is in ecological danger and the state has restricted withdrawals. Our third major source, the Colorado River Basin, may also be in trouble.

Taking these factors into account, City water planners have charted courses intended to reduce our need to import so much. The Mayor has set a laudable goal of reducing by 50% the amount we buy from MWD by 2024. MWD's prices have doubled in the last dozen years, and will only continue to increase.

### **A Time to Think Bigger?**



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I support the efforts that are currently underway to expand the removal of solids from sewage water so that more of it can be safely recycled for landscaping and industrial uses, and to capture more water during rainstorms so that it can be used to decontaminate and replenish our groundwater basin. We should consider expanding these efforts. For example, the City discharges 255,000 acre feet of sewage water per year into the ocean. The City has set a goal for itself, 20 years from now, to recycle 49,000 more acre feet per year of this wastewater. DWP says that setting a higher goal would cost too much in increased energy use and pipeline construction. But we believe that, notwithstanding, there is potential to increase that amount.

We should also consider the obvious fact of the ocean as a water source. The DWP has largely ruled out desalination because of concern over high cost and environmental impacts. But desalination technology is improving and the City should keep an open mind.

### In Conclusion

Angelenos have altered, at this time, their water use habits for the better through greater awareness of the seriousness of our problem and through incentives. But the questions are: Is this permanent and, if not, how do we make it so? Moreover, we need a rate system that will encourage people to conserve.

There is definitely room for incentives. But we should consider providing them based on how much water people save, not on which rebate or incentive program they participate in. And, as we invest in incentives to reduce overuse of water, we must also invest in enhancing supplies.

While we face challenges, we also have opportunities to find new ways of meeting our goals and lead the nation in intelligent use of precious resources.

Respectfully Submitted,



Ron Galperin  
CITY CONTROLLER



**Date:** March 2, 2016

**Prepared By:** Joseph Zoba, General Manager

**Subject:** Authorization to Issue a Request for Proposals for Four Multi-Function Digital Copiers

**Recommendation:** That the Board of Directors Authorizes the District staff to proceed with the issuance of the Request for Proposals.

---

On July 26, 2011, the District purchased two Konica-Minolta C652 (65 copies per minute) multi-function copiers for the District office for a total cost of \$23,500. With the purchase of the new copiers, the District staff relocated older copiers to the Yucaipa Valley Regional Water Filtration Facility and the Wochholz Regional Water Recycling Facility.

A Minolta DI-850 (85 copies per minute) originally purchased on August 30, 2004 for a purchase price of \$30,405 was relocated to the Yucaipa Valley Regional Water Filtration Facility until it failed in August 2012 after producing 1,471,433 copies. This device is no longer operational and not worth the cost of repairing.

A Minolta DI-520 (52 copies per minute) originally purchased on July 26, 2000 for a purchase price of \$21,497 was relocated to the Wochholz Regional Water Recycled Facility until it failed in September 2012 after producing 1,053,380 copies. This device is no longer operational and not worth the cost of repairing.

The two copiers at the District office have produced the following number of copies:

- Administration Copier - Konica-Minolta C652
  - 1,052,854 copies (549,302 color plus 503,552 black/white)
- Engineering Copier - Konica-Minolta C652
  - 184,123 copies (65,914 color plus 118,209 black/white).

Both of these copiers will be relocated to the Public Works Department for their remaining useful life.

Having two copiers at the District office provides the necessary redundancy for typical administrative functions. In the future, the District staff will improve the load balancing between the two units to extend the life of both pieces of equipment.

The District staff is recommending the purchase of four new copiers. Two will be located at the District office, and two downsized units will be located at the Yucaipa Valley Regional Water Filtration Facility and the Wochholz Regional Water Recycling Facility. All four will be multi-function digital copiers and sized according to the anticipated demand. These devices are also intended to eliminate some of the existing laser printers which generally cost more per page to print.





# **Request for Proposal (RFP) for Multi-Function Digital Copiers**

Proposal No. 160201

**Response Due and Public Bid Opening**

**March 22, 2016 at 2:00 p.m.**

Yucaipa Valley Water District  
12770 Second Street  
Yucaipa, California 92399

Contact Information:

Mrs. Vicky Elisalda, Controller  
(909) 790-3310

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**NOTICE IS HEREBY GIVEN** that the Yucaipa Valley Water District (“District”) is issuing this Request for Proposal (RFP) for the purchase of multi-function digital copiers. Submitted competitive sealed proposals must be from qualified vendors and include information related to maintenance and support for corresponding machines.

Vendors are solely responsible for ensuring proposals are received by the District on or before the submittal deadline. Proposals must be received no later than 2:00 p.m., local time on March 22, 2016, at the following address:

Yucaipa Valley Water District  
Attn: Vicky Elisalda, Controller  
12770 Second Street  
Yucaipa, California 92399

An original copy must be signed by a representative authorized to bind the company. Proposals submitted by facsimile or email are not acceptable and will not be considered. **The original signed proposal and five (5) duplicates are to be submitted in sealed packages with the name of the vendor and RFP title clearly marked on the outside of the package.**

Failure to comply with the requirements set forth in this RFP may result in disqualification. Proposals and/or modifications received subsequent to the hour and date specified above will not be considered. Submitted proposals may be withdrawn at any time prior to the submission time specified in this RFP, provided notification is received in writing before the submittal deadline. Proposals cannot be changed or withdrawn after the submittal deadline. No handwritten notations or corrections will be allowed. The responding vendor is solely responsible for all costs related to the preparation of the proposal.

The District reserves the right to reject all proposals and to waive any minor informalities or irregularities contained in any proposal. Acceptance of any proposal submitted pursuant to this RFP shall not constitute any implied intent to enter into a contract.

The contract award, if any, will be made to the vendor who, in the District’s sole discretion, is best able to perform the required services in a manner most beneficial to the Yucaipa Valley Water District.

**INQUIRIES:**

Please submit requests for clarification of this RFP to Vicky Elisalda at [velisalda@yvwd.dst.ca.us](mailto:velisalda@yvwd.dst.ca.us).

## Introduction

This Request for Proposals (“RFP”) is being issued by the Yucaipa Valley Water District (“District”) to solicit proposals for the purchase of multi-function digital copiers. The District anticipates the purchase of up to four copiers summarized as follows:

- Two (2) **Administration Copiers** (Administration and Engineering) which are generally distinguished by a minimum black/white and color copying output speed of 60 pages per minute (ppm), and minimum single-pass, dual scanning speed of 175 originals per minute (opm). The full set of features for the Administration Copiers are included within this Request for Proposals.
- Two (2) **Off-Site Copiers** (YVRWFF and WRWRF) which are generally distinguished by a minimum color copying output speed of 25 pages per minute (ppm) and minimum color scanning speeds of 40 originals per minute (opm). The full set of features for the Off-Site Copiers are included within this Request for Proposals.

The District is interested in retaining one vendor and acquiring models of one brand. However, the District reserves the right to accept a proposal from one vendor for the acquisition of the multi-function digital Administration Copiers and from another vendor for the acquisition of the multi-function digital Off-Site Copiers. The District further reserves the right to accept multiple proposals or to accept portions of any one proposal as it sees fit.

## Contents of Proposal

Transmittal Cover Letter - Please provide a formal letter of transmittal with your bid that commits your company to its proposal and states that the proposal meets the requirements of each section of this RFP. The transmittal letter must be signed by an officer of your company authorized to bind the company to the proposal. Also include contact information for: (1) the person responsible for answering questions regarding the proposal, (2) the person responsible for contract negotiation, and (3) the signer.

Company Information - This section provides each vendor with the opportunity to demonstrate how its history, organization, service offering, and/or partnerships differentiate it. Please include the following:

- A manufacturer’s company profile.
- A qualifications statement describing projects and installations of similar scope and size.
- A certificate or letter from the manufacturer (if vendor is not the manufacturer) stating that the vendor is an authorized service/supply dealer for the equipment proposed.
- The ability to supply copiers and provide service and support for the equipment.
- The resolution process for service/equipment and technical/ connectivity problems.

Proposal Criteria - Please provide a thorough written response to the Proposal Criteria provided below.

Contract Performance - If your company has had a contract terminated during the past five (5) years, all such incidents must be described. Submit full details of all terminations experienced by your company during the last five years including the terminating party’s name, address, and telephone number. Present your company’s position on the matter. If no such terminations for default have been experienced by your company in the past five years, you must warrant such. Please indicate whether your company is involved in any pending litigation that may affect its ability to provide its products.

References - Provide a list of at least three (3) current public agency customers in California for whom you have provided comparable equipment in similar projects/installations. At least two of the three references should be from Riverside or San Bernardino County. Please include the agency's name and name, telephone number, and email address of contact.

## Proposal Criteria

The Proposal should cover all costs and compensation based on an outright purchase and include monthly maintenance costs for supplies and service. Prices proposed by vendors should be submitted on a price schedule. Prices submitted shall be firm for a sixty-month period. The Proposal should also provide a breakdown of costs for professional services, training, and maintenance not covered by the maintenance agreement, any ancillary equipment, delivery and installation, programming, assistance with network configuration, and hard wire installation. All supplies shall be included in the maintenance costs (drums, toner, developer, maintenance kits, cleaning kits, waste toner bottles, and staples).

The Proposal should provide documented qualifications/specifications for each equipment model recommended for the purchase of: two (2) Administration Copiers; and two (2) Off-Site Copiers including:

- copier speed (for both black & white and color),
- scanning speed (for both black & white and color),
- scanning DPI and scanning speeds,
- the range of paper weights allowed,
- whether the paper control is via elevator or spring,
- whether the copier can handle large format paper (up to 11" x 17"),
- network connectivity requirements, and
- hard-drive capacity.

The Proposal should include discussion on how vendor will provide on-site training for the proposed equipment and software. Please describe the training program for the proposed system. Training costs, if any, must be included in the pricing section of the proposal.

## General and Technical Requirements

All multi-function digital copiers shall be new and be from the same manufacturer. No used or refurbished parts or equipment will be accepted. The District seeks to implement digital technology via single platform, network based units capable of performing copying, printing, faxing, and scanning.

The multi-function digital copiers shall meet or exceed the following minimum requirements:

### General

1. Customizable, user-friendly, touch-screen interface that displays job completion confirmation and error messages for troubleshooting.
2. Ability to print and scan simultaneously.
3. Local hard drive storage .
4. PCL and Post-script driver compatibility with Windows XP/7/2003/2008.
5. 100Mbps Ethernet connectivity, with 1 Gigabit Ethernet preferred.



### Scanning and Emailing Functionality

6. Integrated scanner shall not require additional PC workstation, external hard disk drive, processors, or port replicators to facilitate scan and email functionality.
7. Scanner must natively integrate with following network operating systems and software technologies:
  - Microsoft Exchange 2010 and SMTP
  - Windows Server 2003/2008 domains
  - Windows File Shares
  - Laserfiche Enterprise Content Management with optional manual or automated entry on copier control panel of LF metadata.
8. High-resolution and high-speed scanning capabilities.
9. Ability to scan in black and white, grayscale, and color.
10. Ability to scan to at least these file formats: PDF, TIFF, and JPEG. Other formats are desirable but not required.
11. Ability to scan to both email and network file shares.

### Print/Copy Function

12. High-capacity paper trays.
13. High-speed printing and copying.
14. Capable of producing double-sided prints/copies.
15. Capable of printing on stock ranging from 20 lb. bond paper to 110 lb. index on high-volume copiers and 16 lb. bond paper to 24 lb. for mid-volume copiers.
16. An automated stapling system, capable of stapling a minimum of 20 sheets of 20 lb. paper. For high-volume copiers, stapling should include corner, double, and saddle stitch.
17. Full offset stacking and finishing capability.
18. High-capacity automated document feeder.
19. Bypass tray for the purpose of printing on specialized stock.
20. Capable of enlarging documents in preset increments.
21. Capable of inserting tabs/or slips sheets.

### Other Functions

22. End-user replacement of consumable components including toner, staples, and paper should be easy.
23. PIN code and/or mailbox secured access for users.
24. Ability to restrict printing or copying by user or group.
25. Programmable cost center/accounting meters, with a minimum of 10 separate cost centers/meters; vendor to specify the number of digits accommodated per accounting code.

### Miscellaneous

26. Proposals should include only one brand/manufacturer.
27. Proposals should include either a per-page cost (for both black and color prints/copies) or a fixed cost assuming a maximum number of pages per month. Assume the following number of pages per month for the proposed copiers:

New Copier Name	Monthly Color Copies	Monthly Black & White Copies
Administration	15,000	10,000
Engineering	5,000	5,000
WRWRF	1,000	1,000
YVRWFF	1,000	1,000

- There should be no charge for scanning on the multi-function digital copiers.
28. All supplies shall be included in the maintenance costs (drums, toner, developer, maintenance kits, cleaning kits, waste toner bottles and staples).
  29. Vendor must provide in proposal a certificate or letter from the manufacturer stating that the vendor is an authorized service/supply dealer for the equipment proposed.
  30. Vendor should propose a limited number of models to suit the District's various needs (see Appendix A).
  31. Vendor should propose disposal, trade-in, or lease return options for existing equipment that includes the following two pieces of equipment which are both non-operable:
    - Minolta DI-520
    - Minolta DI-850
  32. Fair market value of the District-owned machines should be factored into the proposal price. Vendor shall be responsible for removal and recycling/destruction of copiers the District selects to be replaced.
  33. Vendor must provide a technical support hotline 6:00 am - 6:00 pm Monday through Friday.
  34. Vendor will respond to service request with a one (1) hour call-back and address any defect in software, equipment or part on-site within four (4) hours of such report. If the reported defect(s) remain unresolved longer than forty-eight (48) hours, the vendor will provide a comparable loaner printer/copier at no charge for the remaining duration of the contract term.
  35. Vendor shall certify destruction of hard disk drives that may contain confidential and/or personal data gathered and stored electronically with normal copying and scanning use.

#### Optional Items

36. "Follow You" and rules-based printing.
37. Mobility solutions – printing from smartphone or tablet directly to copier.
38. At discretion of the District, replacement of copier with brand-new unit within two years at no cost if unit is not performing within specifications or has had too many repairs.

The Yucaipa Valley Water District looks forward to receiving a proposal from your company. If you have any questions regarding this information, please contact:

Vicky Elisalda, Controller

Phone: (909) 797-6416

Email: [velisalda@yvwd.dst.ca.us](mailto:velisalda@yvwd.dst.ca.us)

# APPENDIX A

#####



**Date:** March 2, 2016

**Prepared By:** Joseph Zoba, General Manager

**Subject:** Discussion Regarding Regional Imported Water Supply Issues, Goals and Solutions in the San Gorgonio Pass Area

**Recommendation:** Pending

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#### Regional Meetings and Regional Coordination

At the Yucaipa Valley Water District board workshop on February 9, 2016, the Board of Directors decided to continue the discussion regarding Resolution No. 2016-10 until April 20, 2016.

At the board meeting on February 17, 2016, the Board of Directors authorized the District staff to schedule a public meeting with elected officials from the San Gorgonio Pass area to discuss regional water issues. A public meeting has been scheduled for Thursday, March 10, 2016 at 6:00 pm. The meeting will be hosted by the Beaumont Cherry Valley Water District. On February 18, 2016, an email notice of the regional meeting was sent to the following entities:

- Banning Heights Mutual Water Company
- Beaumont Cherry Valley Water District
- Cabazon Water District
- City of Banning
- City of Beaumont
- City of Calimesa
- High Valleys Water District
- San Gorgonio Pass Water Agency
- South Mesa Mutual Water Company
- Yucaipa Valley Water District

The email message encouraged representatives from these agencies to invite other interested parties not included in the original email invitation.

On Monday, February 29, 2016, the San Gorgonio Pass Water Agency will be conducting a special meeting with possible action on the following two items:

- Consideration to propose a facilitated process to discuss regional water supply issues and solutions between the San Gorgonio Pass Water Agency, Beaumont Cherry Valley Water District, Yucaipa Valley Water District and the San Bernardino Valley Municipal Water District; and
- Consideration and possible action regarding a proposed joint public meeting with the Board of Directors of the San Gorgonio Pass Water Agency, Beaumont Cherry Valley Water District, Yucaipa Valley Water District and possibly other public and private retailers in the Agency's service area - Thursday, March 10, 2016 at 6:00 pm at Beaumont Cherry Valley Water District.

The attached staff report (see page 5 of 18) from the San Gorgonio Pass Water Agency outlines the possible alternatives for the meeting structure which includes:

- participation in a facilitated versus non-facilitated process;
- involvement of full boards versus ad hoc committees; and
- involvement of a select few water retailers versus an invitation to all water retailers.

Based on the discussion at the District's February 17, 2016 board meeting, the Yucaipa Valley Water District Board of Directors opted for the all-inclusive (open to all water retailers) and public meeting that would ideally include all elected officials interested in participating in the discussion and resolution of regional water supply issues.

The primary purpose of this Director Memorandum No. 16-031 is to provide an opportunity to discuss the February 29<sup>th</sup> San Gorgonio Pass Water Agency and provide District staff with direction to expedite solutions to the water supply issues in the San Gorgonio Pass area.

#### Creation of a Public Information Portal on the YVWD Website

On February 16, 2016, the Board of Directors of the San Gorgonio Pass Water Agency (SGPWA) authorized their legal counsel, Best, Best & Krieger (BB&K) to provide legislative advocacy services for the San Gorgonio Pass Water Agency. The scope of services of the lobbying contract consists of the following duties:

- Monitor and track legislation of interest to SGPWA.
- Advocate on behalf of SGPWA before the state legislature and state administrative agencies. All prepared testimony and advocacy materials shall be subject to approval by SGPWA.
- Provide policy and legislative briefings on a monthly basis, or as requested by SGPWA.
- Develop strategic relationships relevant to SGPWA's interests.

A copy of the SGPWA staff memorandum regarding the BB&K contract is attached on page 11 of 18.

On February 25, 2016, the Yucaipa Valley Water District received a Public Records Act Request from Danielle Sakai with Best, Best & Krieger requesting information related to the San Gorgonio Pass Water Agency (see page 14 of 18). Responding to public record act requests are routine tasks completed by public agencies and this request is no different from other similar requests received by the Yucaipa Valley Water District.

However, since Best, Best & Krieger represents other water retailers in the San Gorgonio Pass service area, as well as maintains involvement with State Water Contractors, the District staff believes that it would be prudent and beneficial to construct a public portal on the District's website at [www.yvwd.dst.ca.us](http://www.yvwd.dst.ca.us) to publish information directly related to the regional water supply issues in the San Gorgonio Pass area.

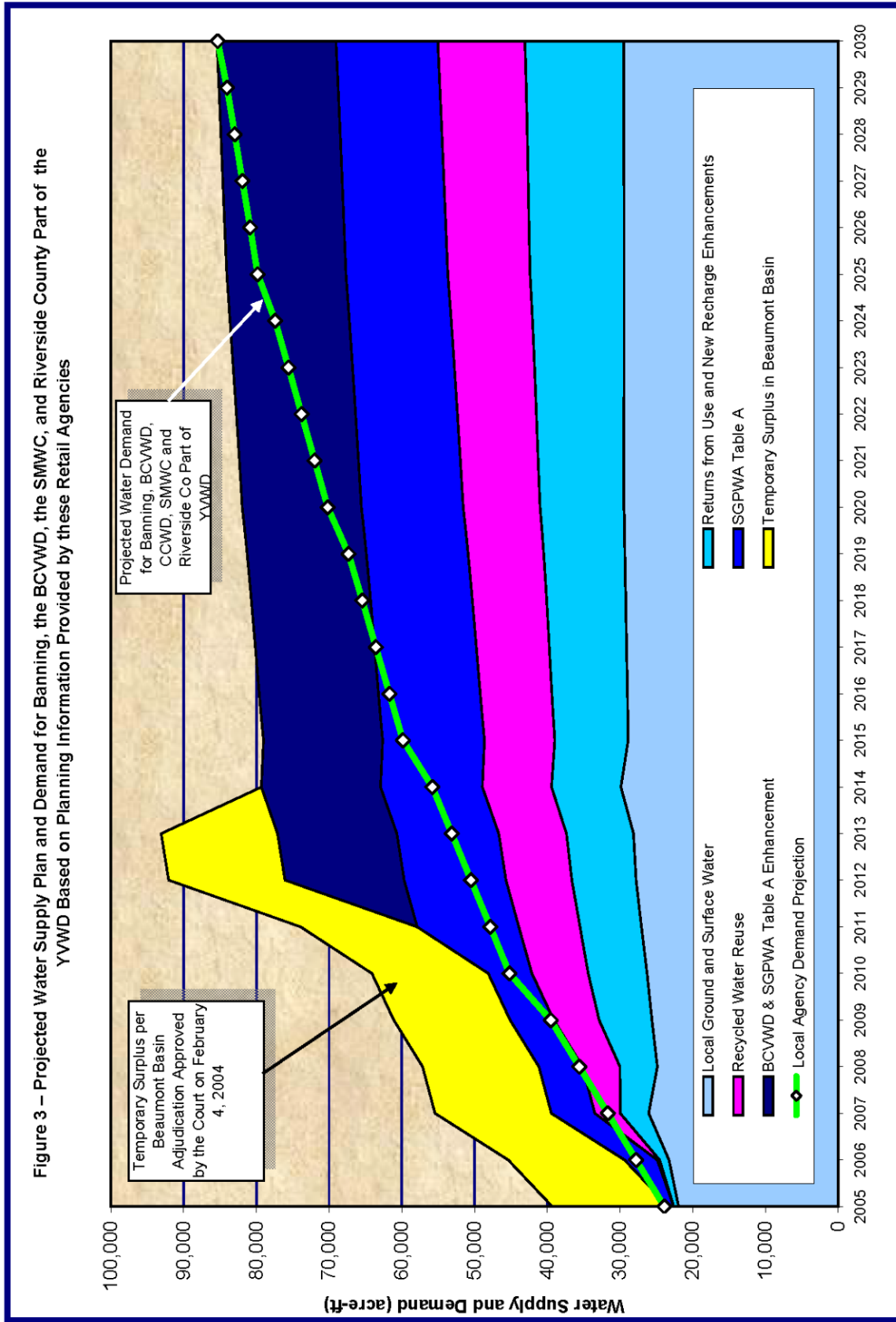
While the water supply issues facing a growing city like Calimesa are not unique in southern California, the lack of regional solutions, governing policies, financial plans, and implementation strategies will likely result in unanticipated expenses for property owners that currently pay property taxes to the San Gorgonio Pass Water Agency.



In addition to providing water supply information, the website portal will also provide solutions and regional goals. The following list has been compiled to facilitate strategic solutions in an effort to resolve the long-standing water supply issues in the region:

- To set forth an allocation, distribution and allotment strategy with water retail suppliers to address the baseline conditions for the beneficial use of the existing 17, 300 acre feet of Table A water available to the region.
- To work directly with the San Geronio Pass Water Agency to develop a purchase plan to secure additional imported water resources for interested water retailers suppliers.
- To schedule and participate in open and public meetings with regional elected officials, staff members, and interested parties to set short-term and long-term goals that are specific, measurable, attainable, realistic and timely.
- To provide comprehensive and coordinated management of imported supplies to achieve optimal levels of water supply reliability, storage utilization, and water quality consistent with the Basin Plan Objectives.
- To implement the most favorable organizational structure to achieve operating efficiencies with decision makers that are able to provide continuity and stability for retail water suppliers in the region with direct representation.
- To ensure regional plans are coordinated and consistent with the goals of the retail water suppliers in the San Geronio Pass Water Agency area.
- To work together to develop reliable and cost effective imported water supplies for the San Geronio Pass area.
- To ensure official representatives of retail water suppliers in groundwater producing areas exclusively vote on groundwater management, pricing and production matters;
- To ensure imported water financial, management and administrative decisions are voted on by those retail water suppliers that are mostly impacted by the cost and imported water usage.
- To ensure effective representation on water issues at the regional, state and federal level that is coordinated with the interests and priorities of retail water suppliers.

The secondary purpose of this Director Memorandum No. 16-031 is to provide an opportunity for the Board of Directors to provide direction to the District staff regarding the development of a website portal with information regarding the regional water supply issues and solutions.



S:\Client\STWMA\FY 2005\_06 Task orders\Task Order 1\December 2005 Report\Final Report Docs\20060214 Letter to Spilliotis\20060227 Report Tables and Charts -- 20060328 Consolidated Water Demand and Supply Plan.xls -- Figure 3  
 Created on 6/17/04  
 Printed

**SAN GORGONIO PASS WATER AGENCY  
1210 Beaumont Avenue, Beaumont, CA**

**NOTICE AND CALL OF SPECIAL MEETING**

**NOTICE IS HEREBY GIVEN**, that pursuant to Government Code Section 54956, a Special Meeting of the San Gorgonio Pass Water Agency Board of Directors is hereby called by the President of the Board for:

**Date/Time:** Monday, February 29, 2016 at 7:00 p.m.

**Location:** San Gorgonio Pass Water Agency  
1210 Beaumont Avenue, Beaumont, CA

**SPECIAL MEETING AGENDA**

**1. Call to Order, Flag Salute and Roll Call**

**2. Adoption and Adjustment of Agenda**

**3. Public Comment:** Members of the public may address the Board at this time concerning only items listed on this Special Meeting Agenda. Please complete a speaker's request form and hand it to the Board secretary.

**4. New Business (Discussion and Possible Action)**

- A. Consideration and possible action to propose a facilitated process in regard to the regional water supply issues, concepts, and solutions, by and between San Gorgonio Pass Water Agency, Beaumont Cherry Valley Water District, Yucaipa Valley Water District, and San Bernardino Valley Municipal Water District\* (Page 2)
- B. Consideration and possible action regarding proposed joint public meeting with the Board of Directors of the San Gorgonio Pass Water Agency, Beaumont Cherry Valley Water District, Yucaipa Valley Water District, and possibly other public and private water retailers in the Agency's service area. Proposed date and time – Thursday, March 10, 2016 at 6:00 pm at the Beaumont Cherry Valley Water District.\* (Page 2)

**5. Announcements**

- A. Regular Board Meeting, March 7, 2016 at 7:00 pm
- B. Engineering Workshop, March 14, 2016 at 4:00 pm

**6. Adjournment**

\*Information included in Agenda Packet

(1) Materials related to an item on this Agenda submitted to the Board of Directors after distribution of the agenda packet are available for public inspection in the Agency's office at 1210 Beaumont Avenue, Beaumont during normal business hours. (2) Pursuant to Government Code section 54957.5, non-exempt public records that relate to open session agenda items and are distributed to a majority of the Board less than seventy-two (72) hours prior to the meeting will be available for public inspection at the Agency's office, located at 1210 Beaumont Avenue, Beaumont, California 92223, during regular business hours. When practical, these public records will also be made available on the Agency's Internet Web site, accessible at <http://www.sgpwa.com>. (3) Any person with a disability who requires accommodation in order to participate in this meeting should telephone the Agency (951 845-2577) at least 48 hours prior to the meeting in order to make a request for a disability-related modification or accommodation.

## MEMORANDUM

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**TO:** Board of Directors

**FROM:** General Manager

**RE:** Proposed facilitated process in regard to regional water supply issues by and between the Agency, Yucaipa Valley Water District (YVWD), and Beaumont Cherry Valley Water District (BCVWD)

Proposed joint public meeting with Boards of Directors of the Agency, YVWD, BCVWD, and possibly others

**DATE:** February 29, 2016

### **Summary:**

Several weeks ago, momentum started to build to initiate a process between the Agency and some of its retail water purveyors to improve communication and possibly to resolve some philosophical differences related to obtaining future water supplies for the region. That process has yet to be defined. In fact, at this time there are at least three processes that have been initiated at some level. The purpose of this proposed Board action is to determine which process or processes the Board wishes to participate in.

### **Background:**

For some time, YVWD and BCVWD have expressed dissatisfaction with the Agency's direction. Issues that have been the focus of this dissatisfaction include, but are not limited to, the Agency's desire to fund new water supplies partially through capacity fees and the Agency's plans to construct a regional water storage facility to drought-proof the region.

Both of these purveyors recently considered Board agenda items that would have directed their staffs to revise the San Gorgonio Pass Water Agency Act to change the governance structure of the Board to be appointed by five retail water agencies instead of directly elected by the taxpayers. In each case, opposition to the resolutions was strong from other retail water purveyors and the Agency, and both

retail water purveyors tabled consideration of the proposed actions. In the process, YVWD set a deadline of 60 days for the Agency to evidently achieve measureable results and if not, it plans to continue to pursue its proposed legislation.

During the discussions at those Board meetings, Agency Board members and other elected officials discussed the possibility of holding some joint board meetings and/or beginning a facilitated process with ad hoc committees of the elected bodies that could improve communications and/or bring some of the contested issues to a resolution.

At the YVWD meeting, Mark Bulot, President of the San Bernardino Valley Municipal Water District, volunteered to sponsor a facilitated process that would include the Valley District, Yucaipa Valley Water District, and the Agency. This suggestion was well received at this meeting. However, when the YVWD Board tabled the proposed action, it was not made contingent on participation in this process.

At the BCVWD meeting, tabling of the proposed resolution relating to governance of the Agency was coupled with a motion to appoint an ad hoc committee of the BCVWD Board to participate in a process with other Boards, including the Agency.

At the Agency's February 16 Board meeting, the Board discussed this issue at length under an agenda item to appoint an ad hoc committee to participate in a facilitated process with other elected officials. At that meeting, the Board came to no conclusions and no action was taken. Board members expressed a wide array of opinions, including participation in a facilitated vs. a non-facilitated process, use of full boards vs. use of ad hoc committees, and participation with just these two retail purveyors vs. participation with other retail agencies and elected bodies as well. The current agenda provides flexibility for the Board to consider all these options.

More recently, the Agency has received an invitation to participate in a joint Board meeting on Thursday, March 10 in the BCVWD Board room. The YVWD Board and the BCVWD Board would be present at that meeting. Other Boards or elected bodies have been invited and may or may not participate. Apparently, the plan is to have an



elected official representing one of the vested interests facilitate the meeting. When the Agency has asked for specifics regarding this point, no clear answers have been provided. The goal of this proposed Joint Meeting has also not been made clear, other than generally to start a dialog.

In addition to these actions, the San Geronio Pass Water Alliance, led by its President, Debbie Franklin, has offered to be the forum for resolving the differences between the two retail purveyors and the Agency. This was suggested by her at the Board's February 16 meeting.

### **Detailed Report:**

The Agency Board must make a decision on whether it wishes to participate in some sort of dialog process and, if so, what process or processes it should choose.

A "facilitated process" with a trained facilitator has some advantages over a process that does not include an outside facilitator. First, an outside facilitator that has no vested interest in any particular outcome would be more likely and able to lead a group to compromise positions. Second, an outside facilitator would be able to get the group to agree on an achievable goal in the first meeting, and keep the group on track towards reaching that goal. Third, an outside facilitator would be more likely to be able to handle conflict when it comes up. Fourth, an outside facilitator would be better able to reign in discussions and keep a group focused on the goal.

A facilitated process would be likely to include ad hoc committees as opposed to full Boards. Use of ad hoc committees would reduce the number of participants and make achieving stated goals easier to attain in a shorter period of time, as ad hoc committees could meet more frequently than larger bodies. The Yucaipa Valley Water District has set a deadline of 60 days to achieve measurable results.

A series of joint board meetings would be more inclusive, and elected officials might feel better about being able to have their voices heard. By the same token, with more people talking, it could take longer to achieve stated goals. As an example, the proposed Joint Meeting on

March 10 would have at least 17 participants with just three Boards, and could have many more if other public agencies decide to participate. With an insider facilitating the process, that facilitator will have a vested interest in the outcome and thus may not be objective in leading the discussion and moving the group to a compromise acceptable to all parties. Thus, a process led by an inside facilitator may be less likely to result in a timely outcome that is fully trusted by all parties.

The San Geronio Pass Water Alliance proposal has issues in that it consists of one elected representative from all the water purveyors and the cities in the Pass. It is in place now and meets monthly to discuss various issues of common interest. With only one member of each elected body participating, utilizing the Alliance to reach some compromises would of necessity leave most of the elected officials out of the process, and therefore may not be seen as a viable option for some participants. The monthly schedule of these meetings does not lend itself to quick resolutions.

Staff has met with the individual who has been put forth by the Valley District as the facilitator. Mr. Bill Kelly of Kelly Associates Management Group is experienced in bringing parties together and in dealing with conflict. Valley District has been gracious to volunteer to fund the first phase of this process and to participate in it as a good neighbor.

**Fiscal Impact:**

There is no significant fiscal impact associated with any of the options presented in this report.

**Relationship to Strategic Plan:**

Participation in a communication process, whether through joint Board meetings or a facilitated process with ad hoc committees, is consistent with the strategic plan's goals of the Agency asserting its regional leadership role and of a communication plan.

**Recommendation:**

Staff recommends that the Board appoint an ad hoc committee of two members to participate in a facilitated process with Valley District, YVWD, and BCVWD to attempt to resolve differences. It is also

recommended that the Board direct Staff to present this proposed structure of ad hoc committees and a facilitator to YVWD and BCVWD to determine if they wish to participate. The facilitated process offers the best opportunity to progress quickly to a reasonable goal that all parties can agree on and buy into. Members of each ad hoc committee can report back to their Boards the results of the facilitated meetings and bring input from their Boards back to the next facilitated meeting.

The Board may also wish to participate in some manner in the scheduled March 10 joint Board meeting of the YVWD and BCVWD. Should the Board decide to actively participate in this meeting, the Board may wish to use the opportunity to advocate for the ad hoc committees and facilitated process.

Depending on the outcome of the chosen process, the Board may wish to begin a "Phase 2" process that could include other local elected bodies. In this manner, all parties could participate in some sort of process and not feel left out. The details of this Phase 2, if the Board wished to pursue it, could be decided upon later.

## MEMORANDUM

---

**TO:** Board of Directors

**FROM:** General Counsel

**RE:** Consideration and possible action to authorize legislative advocacy services

**DATE:** February 16, 2016

### Summary:

On July 6, 2015, the Board adopted Resolution 2015-04 which provides that it is the desire of the Board to reduce its size from seven to five members and directs the General Manager to ask the legislature to revise the Agency's Act to reflect a reduction in the size of the Board.

Efforts were made through BB&K's Director of Governmental Affairs, Syrus Devers, to determine if the necessary language could be added at the end of last year's legislative session into an existing bill in order to expedite the process. Those efforts were not successful due to the nature and pace of bills which are pushed at the end of a legislative session.

Since then, at no charge, Mr. Devers has scheduled and attended meetings between local legislators and Agency representatives. In addition, at no charge, Mr. Devers has been in communication with legislators' offices in the State Capitol. Through these meetings and other networking, the groundwork is being laid for seeking the sponsorship of an Agency bill by one of these legislators. These networking efforts have also resulted in obtaining information about what is evidently a competing bill from another party.

In addition, very recently both the Yucaipa Valley Water District ("YVWD") and the Beaumont Cherry Valley Water District ("BCVWD") have initiated efforts to introduce their own collective version of a bill which would change the structure of the Agency Board. This

language would reduce the Board from seven to five members but would also change the governance structure to consist of only appointed individuals from only the public agencies that provide drinking water services within the boundary of the Agency. This would do away with the current governance structure whereby the voters decide who will sit on the Agency Board.

In the staff reports accompanying their proposal, YVWD and BCVWD have stated the reasons for their proposal and also stated disagreements they have with the Agency. Through public comments at the board meetings of YVWD and BCVWD, representatives and supporters of the Agency have voiced reasons against the YVWD/BCVWD proposal. In addition, by the very nature of the proposed change in the governance structure of the Agency Board, the YVWD/BCVWD proposal is in conflict with the bill that the Agency supports.

The boards of YVWD and BCVWD took actions to continue or table action on their resolutions. In the case of YVWD, the action was to continue the matter for two months.

Therefore, it is proposed that work be done to establish the necessary relationships and tell the Agency story to legislators. Such efforts are needed in order to pursue passage of the Agency's bill and to respond to the issues and disagreements which have manifested themselves in the YVWD/BCVWD proposal. There is always the potential that YVWD and/or BCVWD could revisit the tabling of their proposals at any time.

**Recommendation:**

It is recommended that the Board take action to authorize BB&K, through Syrus Devers, to continue to provide state legislative services to pursue the goals and objectives set forth herein.

Such services are contemplated by, are in addition to, and would be provided consistent with, the terms and conditions for legal services under the current BBK agreement with SGPWA. Since such services are provided based on a monthly fee, as opposed to an hourly rate, an additional letter agreement will confirm such details.



The fee would be \$5,000 per month commencing upon Board approval through January 1, 2017. Please note that the amount being charged is less than half of what the fee would normally be for such services and is likely much lower than what other public agencies are charged by other legislative advocacy firms. This discounted fee is being provided due to the long standing relationship with the Agency and a limited ability to dedicate resources to this effort. The arrangement can be terminated at any time by the Agency for any reason or no reason.

**Alternatives:**

If the Board does not wish to retain BB&K for these additional services, there would seem to be the following alternatives:

1. Hire another lobbying firm;
2. Look to Agency staff to perform the networking and outreach which we believe is critical to a successful bill and to responding to the competing YVWD/BCVWD bill;
3. Make a request of the applicable local legislator to sponsor the Agency bill and then devote limited staff time to following up on the request to see if the bill is selected by the legislator and pushed by the legislator's office.

Indian Wells  
(760) 568-2611  
Irvine  
(949) 263-2600  
Los Angeles  
(213) 617-8100  
Ontario  
(909) 989-8584

**Syrus Devers**  
(916)325-4000  
syrus.devers@bbklaw.com

**BBK**  
**BEST BEST & KRIEGER**  
ATTORNEYS AT LAW

500 Capitol Mall Suite 1700, Sacramento, CA 95814  
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Riverside  
(951) 686-1450  
Sacramento  
(916) 325-4000  
San Diego  
(619) 525-1300  
Walnut Creek  
(925) 977-3300

February 5, 2016

San Geronio Pass Water Agency  
Attn: Jeff Davis, General Manager  
1210 Beaumont Avenue  
Beaumont, CA 92223

**Legislative Services**

Dear Jeff:

This letter confirms the understanding and agreement between Best Best & Krieger (BBK) and the San Geronio Pass Water Agency (SGPWA) with respect to state legislative services to be provided by BBK to SGPWA. Such services will be consistent with the scope of services, compensation, and other terms described below. In addition, such services are contemplated by, are in addition to, and will be provided consistent with, the terms and conditions for legal services under the current BBK agreement with SGPWA.

**Scope of Services**

Overall, services to be provided by BBK will consist of the following duties:

1. Monitor and track legislation of interest to SGPWA.
2. Advocate on behalf of SGPWA before the state legislature and state administrative agencies. All prepared testimony and advocacy materials shall be subject to approval by SGPWA.
3. Provide policy and legislative briefings on a monthly basis, or as requested by SGPWA.
4. Develop strategic relationships relevant to SGPWA's interests.

**Compensation and Terms**

The fee for the above-described services will be \$5,000 per month commencing on \_\_\_\_\_, 2016 through January 1, 2017 and may be terminated by either party, without cause or prejudice, with thirty days written notice or as otherwise provided for under the current BBK agreement for legal services. SGPWA agrees to reimburse BBK for necessary expenses for any travel by Syrus Devers to attend SGPWA board meetings as approved in advance by SGPWA.



**BEST BEST & KRIEGER**  
ATTORNEYS AT LAW

San Geronio Pass Water Agency  
February 5, 2016  
Page 2

Agreed and Accepted By:

\_\_\_\_\_  
**Jeff Ferre**  
Best Best & Krieger

\_\_\_\_\_  
**Jeff Davis**  
General Manager  
San Geronio Pass Water Agency

Dated:  
  
\_\_\_\_\_

Dated:  
  
\_\_\_\_\_

Indian Wells  
(760) 568-2611  
Irvine  
(949) 263-2600  
Los Angeles  
(213) 617-8100  
Ontario  
(909) 989-8584



3390 University Avenue, 5th Floor, P.O. Box 1028, Riverside, CA 92502  
Phone: (951) 686-1450 | Fax: (951) 686-3083 | www.bbklaw.com

Sacramento  
(916) 325-4000  
San Diego  
(619) 525-1300  
Walnut Creek  
(925) 977-3300  
Washington, DC  
(202) 785-0600

Danielle G. Sakai  
danielle.sakai@bbklaw.com

RECEIVED  
FEB 25 2016

February 22, 2016

YUCAIPA VALLEY  
WATER DISTRICT

Joseph Zoba  
General Manager  
Yucaipa Valley Water District  
P.O. Box 730  
Yucaipa, CA 92399

Re: Public Records Act Request

Dear Mr. Zoba:

On behalf of my client, the San Gorgonio Pass Water Agency, I am sending you this request for copies of public records, pursuant to the California Public Records Act. (Gov. Code §§ 6250-6276.48.) I request that your agency provide to me copies of the following public records of the Yucaipa Valley Water District (the District) dating from January 1, 2014 up through the date you receive this request:

- (1) Any and all records pertaining to the District’s hiring of and/or payments made to any lobbyist, lobbying firm or other governmental relations firm.
- (2) Any and all records pertaining to any legislation proposed by the District, including but not limited to proposed legislation involving the San Gorgonio Pass Water Agency.
- (3) Any and all records pertaining to proposed legislation that has been submitted to any State legislator by anyone associated with or acting on behalf of the District.
- (4) Any and all records pertaining to Resolution No. 2016-10 “Supporting the Changes to the Governance Structure of the San Gorgonio Pass Water Agency to Improve the Efficiency and Effectiveness of the Organization.”
- (5) Any and all District Board of Directors meeting agendas, staff reports, meeting minutes, and/or resolutions presented to the Board of Directors pertaining to:
  - (a) Hiring any lobbyist, lobbying firm or other governmental relations firm; and/or
  - (b) Any proposed legislation involving the San Gorgonio Pass Water Agency; and/or

  
**BEST BEST & KRIEGER**   
 ATTORNEYS AT LAW

Joseph Zoba  
 General Manager  
 Yucaipa Valley Water District  
 February 22, 2016  
 Page 2

(c) Any proposed legislation submitted to any State legislator by anyone associated with or acting on behalf of the District.

(6) Any correspondence, including letters, memos, emails, text messages or other communications between any member of the District Board of Directors or any District staff member and any lobbyist, lobbying firm or other governmental relations firm pertaining to any legislation proposed by the District, including but not limited to proposed legislation involving the San Gorgonio Pass Water Agency.

(7) Any correspondence, including letters, memos, emails, text messages or other communications between any member of the District Board of Directors or any District staff member and any State legislator or any member of any State legislator's staff, including but not limited to State Senator Mike Morrell or any member of Senator Morrell's staff.

For purposes of this request, the term "public records" has the same meaning and definition as "public records" and "writing" set forth in Government Code section 6252, subdivisions (e) and (g).<sup>1</sup>

I believe that the requested records are not exempt from disclosure under any of the provisions of the Public Records Act. If you decide to withhold any of the requested records, or portions of any requested records, I request that you provide a detailed written explanation of your reasons for withholding the requested information. Such written explanation must include the specific exemptions you rely upon, as required by Government Code section 6255, subdivision (a). In addition, if you deny any part of this request, you are required by law to provide in writing "...the names and titles or positions of **each person responsible for the denial.**" (Gov. Code § 6253, subd. (d).) (Emphasis added.)

Furthermore, I understand that Government Code Section 6253.1 of the Public Records Act requires all public agencies to assist members of the public to make focused and effective requests for records and to provide suggestions for overcoming any practical basis for being denied access to public records. In the light of this requirement, I request your assistance in refining this request for records if any portion of this request seems unfocused or in any way unclear to you.

<sup>1</sup> "Public records" includes any writing containing information relating to the conduct of the public's business prepared, owned, used or retained by any state or local agency regardless of physical form or characteristics. "Writing" means handwriting, typewriting, printing, photostating, photographing, photocopying, transmitting by electronic mail or facsimile, and every other means of recording upon any tangible thing any form of communication or representation, including letters, words, pictures, sounds, or symbols, or combinations thereof, and any record thereby created, regardless of the manner in which the record has been stored.





**BEST BEST & KRIEGER**  
ATTORNEYS AT LAW

Joseph Zoba  
General Manager  
Yucaipa Valley Water District  
February 22, 2016  
Page 3

In addition, I will pay reasonable and standard charges associated with direct costs of duplication of the records I have requested. In the event that such fees are in excess of \$100, please contact me so that I can decide what alternatives, if any, may be available. If any of the requested documents are available online through your agency's website, please provide me with the hyperlink or URL so that I can access those records.

I look forward to receiving a determination from you within 10 days regarding this request, pursuant to Government Code Section 6253, subdivision (c). Please feel free to contact me by telephone or e-mail if you have questions or need additional information regarding this request. I can be reached by telephone at (951) 826-8328 and by email at [danielle.sakai@bbklaw.com](mailto:danielle.sakai@bbklaw.com). Thank you in advance for your timely action on this request.

Sincerely,

A handwritten signature in blue ink, reading 'Danielle G. Sakai'.

Danielle G. Sakai  
of BEST BEST & KRIEGER LLP

# Director Comments



Yucaipa Valley Water District



## FACTS ABOUT THE YUCAIPA VALLEY WATER DISTRICT

**Service Area Size:** 40 square miles (sphere of influence is 68 square miles)

**Elevation Change:** 3,140 foot elevation change (from 2,044 to 5,184 feet)

**Number of Employees:** 5 elected board members  
62 full time employees

**Operating Budget:** Water Division - \$13,397,500  
Sewer Division - \$11,820,000  
Recycled Water Division - \$537,250  
Total Annual Budget - \$25,754,750

**Number of Services:** 12,434 water connections serving 17,179 units  
13,559 sewer connections serving 20,519 units  
64 recycled water connections

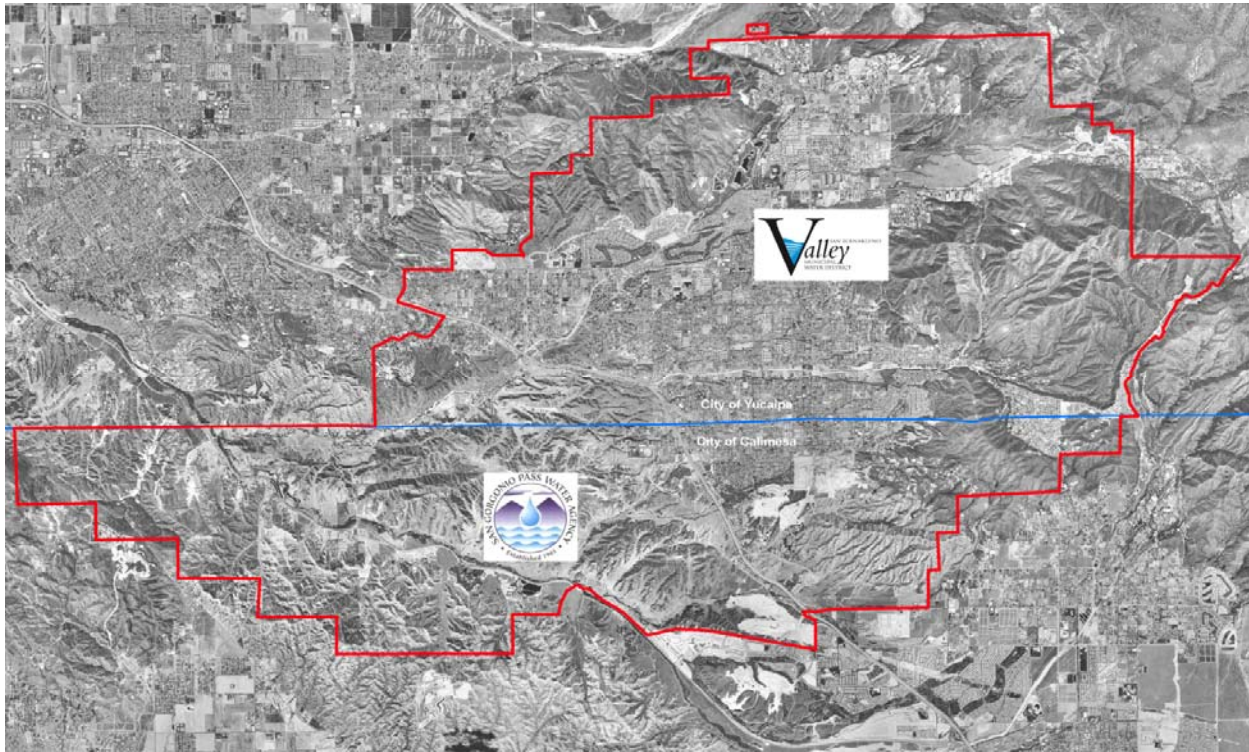
**Water System:** 215 miles of drinking water pipelines  
27 reservoirs - 34 million gallons of storage capacity  
18 pressure zones  
12,000 ac-ft annual water demand (3.9 billion gallons)  
Two water filtration facilities:  
- 1 mgd at Oak Glen Surface Water Filtration Facility  
- 12 mgd at Yucaipa Valley Regional Water Filtration Facility

**Sewer System:** 8.0 million gallon treatment capacity - current flow at 4.0 mgd  
205 miles of sewer mainlines  
5 sewer lift stations  
4,500 ac-ft annual recycled water prod. (1.46 billion gallons)

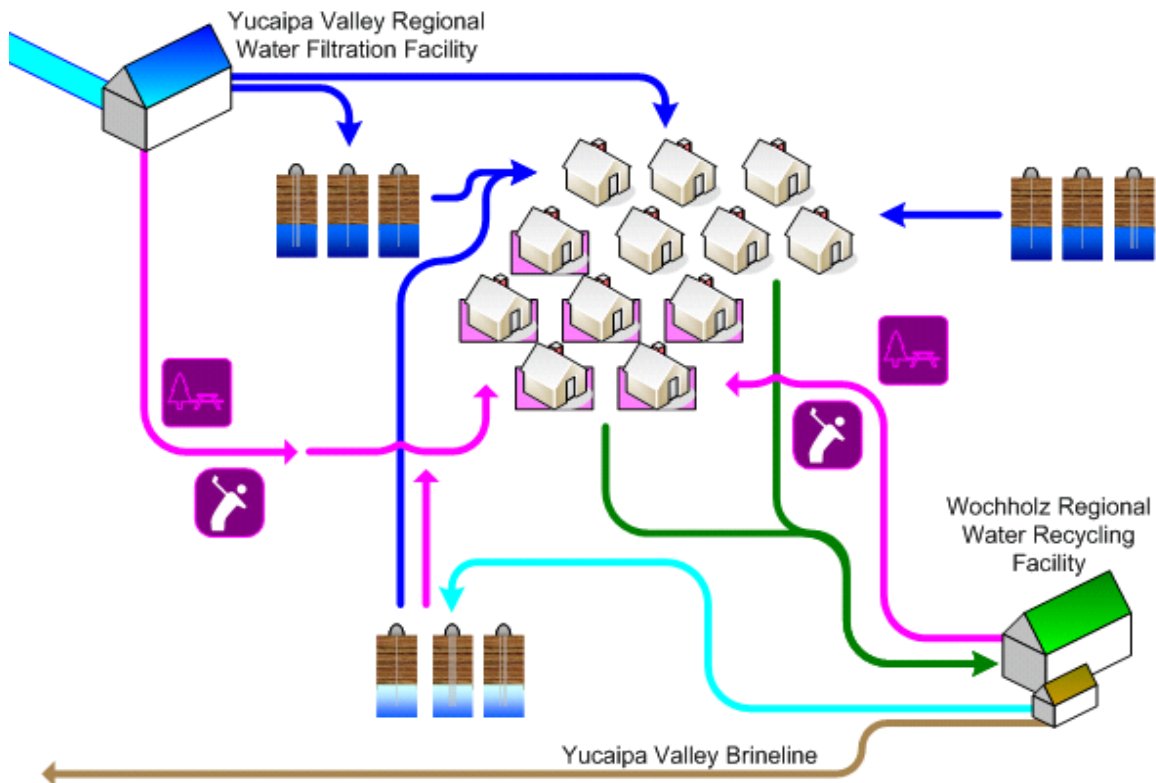
**Recycled Water:** 22 miles of recycled water pipelines  
5 reservoirs - 12 million gallons of storage  
1,200 ac-ft annual recycled demand (0.4 billion gallons)

**Brine Disposal:** 2.2 million gallon desalination facility at sewer treatment plant  
1.108 million gallons of Inland Empire Brine Line capacity  
0.295 million gallons of treatment capacity in Orange County

**State Water Contractors:** San Bernardino Valley Municipal Water District  
San Geronimo Pass Water Agency



**Sustainability Plan:** A Strategic Plan for a Sustainable Future: The Integration and Preservation of Resources, adopted on August 20, 2008.





## THE MEASUREMENT OF WATER PURITY

**One part per hundred** is generally represented by the percent (%).  
This is equivalent to about fifteen minutes out of one day.

**One part per thousand** denotes one part per 1000 parts.  
This is equivalent to about one and a half minutes out of one day.

**One part per million (ppm)** denotes one part per 1,000,000 parts.  
This is equivalent to about 32 seconds out of a year.

**One part per billion (ppb)** denotes one part per 1,000,000,000 parts.  
This is equivalent to about three seconds out of a century.

**One part per trillion (ppt)** denotes one part per 1,000,000,000,000 parts.  
This is equivalent to about three seconds out of every hundred thousand years.

**One part per quadrillion (ppq)** denotes one part per 1,000,000,000,000,000 parts.  
This is equivalent to about two and a half minutes out of the age of the Earth (4.5 billion years).







## GLOSSARY OF COMMONLY USED TERMS

Every profession has specialized terms which generally evolve to facilitate communication between individuals. The routine use of these terms tends to exclude those who are unfamiliar with the particular specialized language of the group. Sometimes jargon can create communication cause difficulties where professionals in related fields use different terms for the same phenomena.

Below are commonly used water terms and abbreviations with commonly used definitions. If there is any discrepancy in definitions, the District's Regulations Governing Water Service is the final and binding definition.

**Acre Foot of Water** - The volume of water (325,850 gallons, or 43,560 cubic feet) that would cover an area of one acre to a depth of 1 foot.

**Activated Sludge Process** – A secondary biological sewer treatment process where bacteria reproduce at a high rate with the introduction of excess air or oxygen, and consume dissolved nutrients in the wastewater.

**Annual Water Quality Report** - The document is prepared annually and provides information on water quality, constituents in the water, compliance with drinking water standards and educational material on tap water. It is also referred to as a Consumer Confidence Report (CCR).

**Aquifer** - The natural underground area with layers of porous, water-bearing materials (sand, gravel) capable of yielding a supply of water; see Groundwater basin.

**Backflow** - The reversal of water's normal direction of flow. When water passes through a water meter into a home or business it should not reverse flow back into the water mainline.

**Best Management Practices (BMPs)** - Methods or techniques found to be the most effective and practical means in achieving an objective. Often used in the context of water conservation.

**Biochemical Oxygen Demand (BOD)** – The amount of oxygen used when organic matter undergoes decomposition by microorganisms. Testing for BOD is done to assess the amount of organic matter in water.

**Biosolids** – Biosolids are nutrient rich organic and highly treated solid materials produced by the sewer treatment process. This high-quality product can be used as a soil amendment on farm land or further processed as an earth-like product for commercial and home gardens to improve and maintain fertile soil and stimulate plant growth.

**Catch Basin** – A chamber usually built at the curb line of a street, which conveys surface water for discharge into a storm sewer.

**Capital Improvement Program (CIP)** – Projects for repair, rehabilitation, and replacement of assets. Also includes treatment improvements, additional capacity, and projects for the support facilities.

**Collector Sewer** – The first element of a wastewater collection system used to collect and carry wastewater from one or more building sewer laterals to a main sewer.

**Coliform Bacteria** – A group of bacteria found in the intestines of humans and other animals, but also occasionally found elsewhere and is generally used as an indicator of sewage pollution.

**Combined Sewer Overflow** – The portion of flow from a combined sewer system, which discharges into a water body from an outfall located upstream of a wastewater treatment plant, usually during wet weather conditions.

**Combined Sewer System**– Generally older sewer systems designed to convey both sewage and storm water into one pipe to a wastewater treatment plant.

**Conjunctive Use** - The coordinated management of surface water and groundwater supplies to maximize the yield of the overall water resource. Active conjunctive use uses artificial recharge, where surface water is intentionally percolated or injected into aquifers for later use. Passive conjunctive use is to simply rely on surface water in wet years and use groundwater in dry years.

**Consumer Confidence Report (CCR)** - see Annual Water Quality Report.

**Cross-Connection** - The actual or potential connection between a potable water supply and a non-potable source, where it is possible for a contaminant to enter the drinking water supply.

**Disinfection By-Products (DBPs)** - The category of compounds formed when disinfectants in water systems react with natural organic matter present in the source water supplies. Different disinfectants produce different types or amounts of disinfection byproducts. Disinfection byproducts for which regulations have been established have been identified in drinking water, including trihalomethanes, haloacetic acids, bromate, and chlorite

**Drought** - a period of below average rainfall causing water supply shortages.

**Dry Weather Flow** – Flow in a sanitary sewer during periods of dry weather in which the sanitary sewer is under minimum influence of inflow and infiltration.

**Fire Flow** - The ability to have a sufficient quantity of water available to the distribution system to be delivered through fire hydrants or private fire sprinkler systems.

**Gallons per Capita per Day (GPCD)** - A measurement of the average number of gallons of water use by the number of people served each day in a water system. The calculation is made by dividing the total gallons of water used each day by the total number of people using the water system.

**Groundwater Basin** - An underground body of water or aquifer defined by physical boundaries.

**Groundwater Recharge** - The process of placing water in an aquifer. Can be a naturally occurring process or artificially enhanced.

**Hard Water** - Water having a high concentration of minerals, typically calcium and magnesium ions.

**Hydrologic Cycle** - The process of evaporation of water into the air and its return to earth in the form of precipitation (rain or snow). This process also includes transpiration from plants, percolation into the ground, groundwater movement, and runoff into rivers, streams and the ocean; see Water cycle.

**Infiltration** – Water other than sewage that enters a sewer system and/or building laterals from the ground through defective pipes, pipe joints, connections, or manholes. Infiltration does not include inflow. See *Inflow*.

**Inflow** - Water other than sewage that enters a sewer system and building sewer from sources such as roof vents, yard drains, area drains, foundation drains, drains from springs and swampy areas, manhole covers, cross connections between storm drains and sanitary sewers, catch basins, cooling towers, storm waters, surface runoff, street wash waters, or drainage. Inflow does not include infiltration. See *Infiltration*.

**Inflow / Infiltration (I/I)** – The total quantity of water from both inflow and infiltration.

**Mains, Distribution** - A network of pipelines that delivers water (drinking water or recycled water) from transmission mains to residential and commercial properties, usually pipe diameters of 4" to 16".

**Mains, Transmission** - A system of pipelines that deliver water (drinking water or recycled water) from a source of supply the distribution mains, usually pipe diameters of greater than 16".

**Meter** - A device capable of measuring, in either gallons or cubic feet, a quantity of water delivered by the District to a service connection.

**Overdraft** - The pumping of water from a groundwater basin or aquifer in excess of the supply flowing into the basin. This pumping results in a depletion of the groundwater in the basin which has a net effect of lowering the levels of water in the aquifer.

**Peak Flow** – The maximum flow that occurs over a specific length of time (e.g., daily, hourly, instantaneously).

**Pipeline** - Connected piping that carries water, oil or other liquids. See Mains, Distribution and Mains, Transmission.

**Point of Responsibility, Metered Service** - The connection point at the outlet side of a water meter where a landowner's responsibility for all conditions, maintenance, repairs, use and replacement of water service facilities begins, and the District's responsibility ends.

**Potable Water** - Water that is used for human consumption and regulated by the California Department of Public Health.

**Pressure Reducing Valve** - A device used to reduce the pressure in a domestic water system when the water pressure exceeds desirable levels.

**Pump Station** - A drinking water or recycled water facility where pumps are used to push water up to a higher elevation or different location.

**Reservoir** - A water storage facility where water is stored to be used at a later time for peak demands or emergencies such as fire suppression. Drinking water and recycled water systems will typically use concrete or steel reservoirs. The State Water Project system considers lakes, such as Shasta Lake and Folsom Lake to be water storage reservoirs.

**Runoff** - Water that travels downward over the earth's surface due to the force of gravity. It includes water running in streams as well as over land.

**Sanitary Sewer System** - Sewer collection system designed to carry sewage, consisting of domestic, commercial, and industrial wastewater. This type of system is not designed nor intended to carry water from rainfall, snowmelt, or groundwater sources. See *Combined Sewer System*.

**Sanitary Sewer Overflow** – Overflow from a sanitary sewer system caused when total wastewater flow exceeds the capacity of the system. See *Combined Sewer Overflow*.

**Santa Ana River Interceptor (SARI) Line** – A regional brine line designed to convey 30 million gallons per day of non-reclaimable wastewater from the upper Santa Ana River basin to the sewer treatment plant operated by Orange County Sanitation District.

**Secondary Treatment** – Biological sewer treatment, particularly the activated-sludge process, where bacteria and other microorganisms consume dissolved nutrients in wastewater.

**Supervisory Control and Data Acquisition (SCADA)** - A computerized system which provides the ability to remotely monitor and control water system facilities such as reservoirs, pumps and other elements of water delivery.

**Service Connection** - The water piping system connecting a customer's system with a District water main beginning at the outlet side of the point of responsibility, including all plumbing and equipment located on a parcel required for the District's provision of water service to that parcel.

**Sludge** – Untreated solid material created by the treatment of sewage.

**Smart Irrigation Controller** - A device that automatically adjusts the time and frequency which water is applied to landscaping based on real-time weather such as rainfall, wind, temperature and humidity.

**Special District** - A political subdivision of a state established to provide a public services, such as water supply or sanitation, within a specific geographic area.

**Surface Water** - Water found in lakes, streams, rivers, oceans or reservoirs behind dams.

**Total Suspended Solids (TSS)** – The amount of solids floating and in suspension in water or sewage.

**Transpiration** - The process by which water vapor is released into the atmosphere by living plants.

**Trickling Filter** – A biological secondary treatment process in which bacteria and other microorganisms, growing as slime on the surface of rocks or plastic media, consume nutrients in primary treated sewage as it trickles over them.

**Underground Service Alert (USA)** - A free service that notifies utilities such as water, telephone, cable and sewer companies of pending excavations within the area (dial 8-1-1 at least 2 working days before you dig).

**Urban Runoff** - Water from city streets and domestic properties that typically carries pollutants into the storm drains, rivers, lakes, and oceans.

**Valve** - A device that regulates, directs or controls the flow of water by opening, closing or partially obstructing various passageways.

**Wastewater** – Any water that enters the sanitary sewer.

**Water Banking** - The practice of actively storing or exchanging in-lieu surface water supplies in available groundwater basin storage space for later extraction and use by the storing party or for sale or exchange to a third party. Water may be banked as an independent operation or as part of a conjunctive use program.

**Water cycle** - The continuous movement water from the earth's surface to the atmosphere and back again; see Hydrologic cycle.

**Water Pressure** - Pressure created by the weight and elevation of water and/or generated by pumps that deliver water to the tap.

**Water Service Line** - The pipeline that delivers potable water to a residence or business from the District's water system. Typically the water service line is a 1" to 1½" diameter pipe for residential properties.

**Watershed** - A region or land area that contributes to the drainage or catchment area above a specific point on a stream or river.

**Water Table** - The upper surface of the zone of saturation of groundwater in an unconfined aquifer.

**Water Transfer** - A transaction, in which a holder of a water right or entitlement voluntarily sells/exchanges to a willing buyer the right to use all or a portion of the water under that water right or entitlement.

**Water Well** - A hole drilled into the ground to tap an underground water aquifer.

**Wetlands** - Lands which are fully saturated or under water at least part of the year, like seasonal vernal pools or swamps.

**Wet Weather Flow** – Dry weather flow combined with stormwater introduced into a combined sewer system, and dry weather flow combined with infiltration/inflow into a separate sewer system.





## COMMONLY USED ABBREVIATIONS

<b>AQMD</b>	Air Quality Management District
<b>BOD</b>	Biochemical Oxygen Demand
<b>CARB</b>	California Air Resources Board
<b>CCTV</b>	Closed Circuit Television
<b>CWA</b>	Clean Water Act
<b>EIR</b>	Environmental Impact Report
<b>EPA</b>	U.S. Environmental Protection Agency
<b>FOG</b>	Fats, Oils, and Grease
<b>GPD</b>	Gallons per day
<b>MGD</b>	Million gallons per day
<b>O &amp; M</b>	Operations and Maintenance
<b>OSHA</b>	Occupational Safety and Health Administration
<b>POTW</b>	Publicly Owned Treatment Works
<b>PPM</b>	Parts per million
<b>RWQCB</b>	Regional Water Quality Control Board
<b>SARI</b>	Santa Ana River Inceptor
<b>SAWPA</b>	Santa Ana Watershed Project Authority
<b>SBVMWD</b>	San Bernardino Valley Municipal Water District
<b>SCADA</b>	Supervisory Control and Data Acquisition system
<b>SSMP</b>	Sanitary Sewer Management Plan
<b>SSO</b>	Sanitary Sewer Overflow
<b>SWRCB</b>	State Water Resources Control Board
<b>TDS</b>	Total Dissolved Solids
<b>TMDL</b>	Total Maximum Daily Load
<b>TSS</b>	Total Suspended Solids
<b>WDR</b>	Waste Discharge Requirements
<b>YVWD</b>	Yucaipa Valley Water District