Santa Clara Valley Water District

# NON-AGENDA

## March 24, 2017

**Board Policy: EL-7 Communication and Support to the Board**
The BAOs shall inform and support the Board in its work.


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| | **A. NEWSLETTERS & BRIEFINGS** |
| 4 | **ACWA e-news:** 03/22/17 |
| | **B. CEO BULLETIN** |
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| | **C. BOARD MEMBER REQUESTS & INFORMATIONAL ITEMS** |
| 16 | **BMR/IBMR Weekly Reports:** 03/23/17 |
| 19 | Memo from Jim Fiedler, COO – Water Utility, to the Board, dated 03/15/17, regarding the Summary of O&M Activities Report. |
| 30 | Memo from Chris Elias, DAO – Office of CEO Support, to the Board, dated 03/21/17, regarding an article published by the Coalition for a Sustainable Delta on the importance of balancing the needs of fish and wildlife with the needs of human health and safety. |
| 32 | Memo from Norma Camacho, Interim CEO, to the Board, dated 03/24/17, regarding the completion of Safe Clean Water grant project – Vasona Creek Stream Stabilization and Habitat Enhancement Phase 2. |
| | **D. INCOMING BOARD CORRESPONDENCE** |
| 41 | **Board Correspondence Weekly Report:** 03/24/17 |
| 42 | Email from Don Desando to the Board, dated 03/17/17, asking the Board to do their job, and protect the people they work for (C-17-0137). |
| 43 | Email from Jean-Marie White to Director Keegan, dated 03/19/17, regarding the Anderson Dam retrofit project (C-17-0138). |
| 46 | Email from Jeffrey Hare to the Board, dated 03/19/17, regarding options for keeping Anderson Reservoir at safe levels (C-17-0139). |
| 47 | Email from Cheri Machado-Knapp to Director Keegan, dated 3/18/17, regarding downed trees along Los Gatos Creek (C-17-0140). |
| 48 | Email from Patrick Pizzo to Director LeZotte, dated 03/22/17, regarding Anderson Reservoir and Coyote Creek flooding (C-17-0141). |
| 50 | Email from Elizabeth Lamont, President - West Coast Drilling, Inc., to the Board, dated 03/23/17, regarding the District's retention of 10% of their contract for the last 4 years (C-17-0142). |

## E. OUTGOING BOARD CORRESPONDENCE

**52** Email from Director LeZotte to Patrick Pizzo, dated 03/22/17, regarding Anderson Reservoir and Coyote Creek flooding (C-17-0130).

**53** Letter from Chair Varela to Sam Liccardo, Mayor – City of San Jose, dated 03/21/17, regarding their meeting to discuss the Presidents Day flood.

Board correspondence has been removed from the online posting of the Non-Agenda to protect personal contact information. Lengthy reports/attachments may also be removed due to file size limitations. Copies of board correspondence and/or reports/attachments are available by submitting a public records request to publicrecords@valleywater.org.

# NEWSLETTERS & BRIEFINGS

Published on *Association of California Water Agencies* (http://www.acwa.com)



# ACWA eNews for March 22, 2017

in ACWA eNews

ACWA's eNews is a weekly roundup of California water news and events. Manage your subscription here

## ACWA Announces Line-Up of Speakers for Spring Conference

Submitted by Pamela Martineau on Wed, 03/22/2017 - 4:48pm

Several key movers and shakers in the water industry will speak at ACWA's 2017 Spring Conference & Exhibition in Monterey May 9 – 12, providing perspectives on everything from energy storage to emergency management. The conference, themed "One Water, One Future," explores California's shared vision – and challenges – regarding the state's water future.

Read more

## Bureau Announces Remaining 2017 CVP Allocations

Submitted by Pamela Martineau on Wed, 03/22/2017 - 5:17pm

The U.S. Bureau of Reclamation today announced the 2017 water supply allocations for some Central Valley Project water contractors, saying most will receive 100% of their allocations, except contractors south of the Delta who will receive 65% and 90% of their allocations.

In February, the Bureau announced the water supply allocations for CVP contractors in the Friant Division (Millerton Reservoir), Eastside Division (New Melones Reservoir), and the American River Division (Folsom Reservoir).

The allocations announced today are:

Read more

## Executive Director's Blog: Taking a Stand for the Future We Want in California

Submitted by Pamela Martineau on Tue, 03/21/2017 - 11:52am

In his most recent blog post, ACWA Executive Director Timothy Quinn calls for a comprehensive, collaborative approach to updating the Bay-Delta Water Quality Control Plan, saying that the coequal goals need to be front and center throughout the process.

The blog is here.

## ACWA, Local Water Leaders Call for Collaborative Approach to Flows in Bay-Delta Watershed

Submitted by Pamela Martineau on Fri, 03/17/2017 - 2:42pm

Saying California is facing a defining moment in water policy that could impact the way water is allocated for years, ACWA and local water leaders today called on the State Water Resources Control Board to embrace a collaborative approach to setting flow and water quality objectives in the Bay-Delta watershed.

Read more

## Damaged Spillway Being Carefully Monitored as Lake Oroville Releases Resume

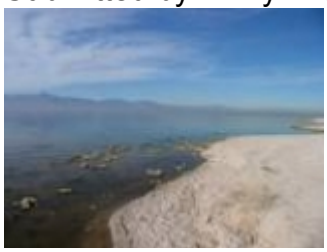
Submitted by Emily Allshouse on Fri, 03/17/2017 - 12:56pm

The California Department of Water Resources Friday provided an update on repairs underway at Oroville Dam and plans to begin releasing water from the damaged main spillway in anticipation of upcoming storms.

Read more

## California Natural Resources Agency Releases 10-Year Plan for Salton Sea

Submitted by Emily Allshouse on Thu, 03/16/2017 - 3:11pm



The California Natural Resources Agency on Thursday released a 10-year plan for the Salton Sea, detailing targeted habitat and dust suppression projects aimed at improving air quality and bird and wildlife populations.

Read more

## Water Education Foundation 2017 Executive Briefing

Thu, 03/23/2017 - 8:15am - 5:00pm
**Location:** Hilton Sacramento Arden West hotel, 2200 Harvard St.

With a theme focusing on “Wave of Change: Breaking the Status Quo,” the Water Education Foundation’s 34th annual Executive Briefing will be held March 23 in Sacramento. The event will examine new approaches to water management, tools to extend supplies, plans to prepare for drought, and the intersection between politics and policy.

This water conference will offers the opportunity to hear from top policymakers and leading stakeholders on key water topics:

REGISTRATION

Read more

## ACWA Energy Storage Summit in Partnership with CESA

Thu, 03/30/2017 - 8:00am - 5:00pm
**Location:** Capitol Event Center, 1020 11th Street, Sacramento, CA 95814

ACWA's 2017 Energy Storage Summit in Partnership with CESA is set for March 30, 2017, at:

Registration

Read more

## Water Storage Investment Program Application Assistance Workshop

Thu, 03/30/2017 - 9:30am
**Location:** Klamath Hearing Room, Second Floor California Environmental Protection Agency 1001 I Street, Sacramento

The California Water Commission (Commission) is hosting an application assistance workshop for potential applicants of the Water Storage Investment Program (WSIP).

March 30, 2017 • 9:30 a.m.
Klamath Hearing Room, Second Floor
California Environmental Protection Agency
1001 I Street, Sacramento
Live webcast at http://cwc.videossc.com

INFORMATION

Read more

## LOWER COLORADO RIVER TOUR 2017

Wed, 04/05/2017 - Fri, 04/07/2017
**Location:** The tour begins in Las Vegas (with an optional start in Ontario) and ends at Ontario International Airport.

Presented by the Water Education Foundation. Explore the Lower Colorado River where virtually every drop of the river is allocated, yet demand is growing from a myriad of sources — increasing population, declining habitat, drought and climate change.
Registration

Read more

## California Water Policy Conference 26

Thu, 04/06/2017 - Fri, 04/07/2017
**Location:** Courtyard by Marriott at Liberty Station, San Diego

From the California Water Policy website at http://www.cawaterpolicy.org/ :

INFORMATION

Read more

## Building Capacity for Regional Sustainability in California: A Water Summit

Wed, 04/12/2017 - 1:00pm - 4:30pm
**Location:** Sacramento Convention Center, 1400 J St., Sacramento

Cosponsored by the Water Education Foundation and the California Department of Water Resources, the half-day summit will explore:

- Establishing governance for groundwater management
- Developing groundwater management and other water management plans

- Improving regulatory processes and securing sustainable funding – all necessary ingredients for achieving sustainable water balance.

Registration and further information

## HEADWATERS TOUR 2017

Thu, 04/27/2017 - Fri, 04/28/2017
**Location:** The tour begins and ends at Sacramento International Airport.

Presented by the Water Education Foundation.

Registration

Read more

## ACWA 2017 Spring Conference & Exhibition

Tue, 05/09/2017 - Fri, 05/12/2017
**Location:** Monterey, CA

ACWA's 2017 Spring Conference & Exhibition is set for May 9-12, 2017, at the Monterey Marriott and Portola Hotel & Spa in Monterey.

***Online Registration & cancellation deadline is April 14, 2017 - 4:30 p.m. (PST)***

**IMPORTANT LINKS:**

REGISTRATION

Read more

## 2017 SANTA ANA RIVER WATERSHED CONFERENCE

Thu, 05/25/2017
**Location:** Ontario Convention Center

This daylong event – convened by the Santa Ana Watershed Project Authority and coordinated by the Water Education Foundation – will

INFORMATION

Read more

## BAY-DELTA TOUR 2017

Wed, 06/14/2017 - Fri, 06/16/2017
**Location:** This tour starts and ends at the Sacramento International Airport

Presented by the Water Education Foundation.

Go deep into California's water hub and traverse the Sacramento-San Joaquin Delta, a 720,000-acre network of islands and canals that support the state's water system and is California's most crucial water and ecological resource. The tour makes it way to San Francisco Bay, and includes a ferry ride.

INFORMATION

Read more
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**Source URL:** http://www.acwa.com/newsletter/acwa-enews/acwa-enews-march-22-2017

# CEO BULLETIN

# CEO BULLETIN

Santa Clara Valley Water District

**To:** Board of Directors
**From:** Norma J. Camacho, Interim CEO

## Chief Executive Officer Bulletin
### Week of Week of March 17 to March 23, 2017

**Board Executive Limitation Policy EL-7:**
***The Board Appointed Officers shall inform and support the Board in its work. Further, a BAO shall 1) inform the Board of relevant trends, anticipated adverse media coverage, or material external and internal changes, particularly changes in the assumptions upon which any Board policy has previously been established and 2) report in a timely manner an actual or anticipated noncompliance with any policy of the Board.***


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| 2 | Grant Funds at Work: Final Report of the Vasona Creek Stream Stabilization and Habitat Enhancement Phase 2 Project by West Valley College |
| 2 | Alamitos Pond Field Trip Aim to Foster Learning and Career |
| 3 | Director LeZotte<br>Staff is to return with information and potential policy language on "Wall Street" banks and how we deal with them in the future on financing<br>R-16-0048 |
| 3 | Director Estremera<br>Staff to provide the Board with information on how many times in the last 12 months, staff has authorized work on expired contracts/agreements, and identify a process for improvement<br>R-17-0007 |
| 3 | Director Keegan<br>Staff to provide information on previous Board presentations and direction on opportunities for flood management on the Anderson Dam project, and provide analysis of benefits to operation of dam<br>R-17-0008 |

**Grant Funds at Work: Final Report of the Vasona Creek Stream Stabilization and Habitat Enhancement Phase 2 Project by West Valley College**

West Valley College received a $300,000, Safe, Clean Water, and Natural Flood Protection grant to fund habitat restoration on Vasona Creek at the West Valley College campus. The project included the reconstruction of a 740-foot long channel segment to add habitat complexity and stabilize a highly eroding portion of the channel. Non-native vegetation along the reconstructed channel and adjacent floodplain areas was removed and replaced with native plants.

The final report on the completed Vasona Creek Stream Stabilization and Habitat Enhancement Phase 2 Project is included in the board's March 24, 2017, Non-Agenda packet**.**

For further information, please contact Chris Elias at 408-630-2379.

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**Alamitos Pond Field Trip Aim to Foster Learning and Career**

As part of the water district's Water Education Program, a tour of the Alamitos Percolation pond was hosted on March 20, 2017, for seventy, seventh grade students from Sylvandale Middle School in the Franklin-McKinley School District.

During their visit, the students and their teachers visited the following:

- Groundwater Model Station: to learn where water comes from in Santa Clara County, the importance of groundwater, and latest innovations at the Silicon Valley Advanced Water Purification Center.
- Enviroscape Model: to discuss and learn about point and non-point source pollution and how it affects local water supply in the San Francisco Bay and the pacific ocean.
- Wetlands Game station: to learn about the importance of wetlands as a habitat for endangered species and the issues posed by wetland habitat loss.

Throughout their visit, the students were engaged and were able to connect what they learned to the importance of water resources in supporting the environment and the quality of life in the local community.

The teachers expressed their appreciation to the Water Education Program and the water district for providing the students with a hands-on learning experience and an interactive field trip.

In the coming week, the Water Education program will follow up with a visit to Sylvandale Middle school to teach an additional ninety students on information from the field trip at workstations and have discussions on career opportunities in the water industry.

For further information, please contact Chris Elias at 408-630-2379.

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**Director LeZotte**
**Staff is to return with information and potential policy language on "Wall Street" banks and how we deal with them in the future on financing**
**R-16-0048**

The water district recommends that when a financial institution chooses to participate and qualify in negotiated sales of water district debt instruments, the institutions must not be under any suspension from negotiated sales activity by the California State Treasurer's Office.

A supporting memorandum regarding this policy was issued by District Counsel on January 11, 2017. The water district updated the Debt Management Policy, Ad-3.7, to include the following language: "For negotiated sale, any underwriters that are currently suspended by the California State Treasurer's Office from its negotiated underwriting pool may not participate in the water district's negotiated sale, pending board approval." At the March 14, 2017, water district board meeting, the board approved the suspension of Wells Fargo Bank from the water district's Negotiated Sale Underwriter Pool through September 27, 2017. The Board Policy and Planning Committee plans to add to their workplan, at their April 10, 2017 meeting, the topic of potential changes to water district policies that relate to engaging with socially responsible businesses, including Wall Street banks.

For further information, please contact Darin Taylor at (408) 630-3068.

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**Director Estremera**

**Staff to provide the Board with information on how many times in the last 12 months, staff has authorized work on expired contracts/agreements, and identify a process for improvement**

**R-17-0007**

Due to a significant workload from the Presidents' Day Storm Event, a response to this Board Member Request will be provided by March 30, 2017.

For further information, please contact Katherine Oven at (408) 630-3126.

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**Director Keegan**

**Staff to provide information on previous Board presentations and direction on opportunities for flood management on the Anderson Dam project, and provide analysis of benefits to operation of dam**

**R-17-0008**

Updates on the Anderson Dam Seismic Retrofit project were provided to the board on January 22, 2013, July 9, 2013, April 10, 2014, June 9, 2015, November 10, 2015, June 28, 2016, and December 13, 2016.

In the July 9, 2013, board agenda memo, the components of the recommended project were described, which included the following: "Construction of a high-level outlet that will discharge to the existing spillway with a maximum discharge of about 4,600 cfs. This outlet will be installed to meet DSOD emergency drawdown requirements and may be used in the future to improve flood management in Coyote Creek."

The water district may perform an analysis in the future to determine the benefits to operation of the dam with the incorporation of a flood management component once the current project focus on seismic retrofit has been completed. The report from the analysis would serve as an opportunity for the board to provide direction on flood management as part of the operations at the Anderson Dam.

For further information, please contact Katherine Oven at (408) 630-3126.

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# BOARD MEMBER REQUESTS & INFORMATIONAL ITEMS

Santa Clara Valley Water District

| Request | Completed Date | Meeting Date | Director | GM / AGM | Description | 20 Days Due Date | Expected Completion Date | Disposition |
|---|---|---|---|---|---|---|---|---|
| R-17-0005 | Pending | 02/14/17 | Estremera | Fiedler | Staff to prepare a response to Ms. Geotze's handout and questions on Fluoride presented during public comments. (See X Drive \ Conformed Board Agenda Items \ 2017 Board Meetings \ 021417 Regular Meeting \ Handout 2.6-A)) | 03/06/17 | | |
| R-16-0048 | Pending | 12/13/16 | Estremera Lezotte | Camacho | Staff is to return with information and potential policy language on "Wall Street" banks and how we deal with them in the future on financing. | 01/04/17 | 02/14/17 | 01/05/17 CEO Bulletin. |
| R-17-0001 | Pending | 01/24/17 | Hsueh | Fiedler | Staff is to prepare for Chair Signature, thank you letters to water retailers, commending efforts that enabled county meeting 20% conservation measures. | 02/15/17 | | |
| R-17-0004 | Pending | 02/14/17 | Hsueh | Camacho | Look at how our Flood Protection projects performed during recent storms to protect properties. If a project hasn't been completed, investigate what impact the storms had on the community. | 03/06/17 | | |
| R-17-0010 | Pending | 03/14/17 | Hsueh | Camacho | Staff to revise the Board approved FY18 Board Budget Message to include a paragraph on the Coyote Creek Flood event to reflect the resources (HR and funding) required to enact any identified process improvements. | 04/03/17 | | |
| R-16-0021 | Pending | 04/12/16 | Keegan | Stanton | Staff to take a preliminary look at the use of PLAs on Non-federal District projects. | 03/22/17 | | 03/02/17 Continued. 07/28/16 CEO Bulletin. |
| R-17-0003 | Pending | 02/14/17 | Keegan | Fiedler | After storm season is over, staff to review our rule curve in terms of discharge to see if they still serve us well. | 03/06/17 | | |
| R-17-0008 | Pending | 02/28/17 | Keegan | Fiedler | Staff to provide information on previous Board presentations and direction on opportunities for flood management on the Anderson Dam project, and provide analysis of benefits to operation of dam. | 03/21/17 | | |
| R-17-0007 | Pending | 02/28/17 | Kremen | Fiedler | Provide the Board with information on how many times in the last 12 months, staff has authorized work on expired contracts/agreements, and identify a process for improvement. | 03/21/17 | | |

| Request | Completed Date | Meeting Date | Director | GM / AGM | Description | 20 Days Due Date | Expected Completion Date | Disposition |
|---|---|---|---|---|---|---|---|---|
| R-17-0002 | Pending | 01/24/17 | Santos | Camacho | Prepare Board item considering policy restricting District funded travel to states of KS/MS/NC/TN, due to sexual orientation, gender idenity, gender expression discriminatory laws. | 02/13/17 | 04/25/17 | 02/17/17 CEO Bulletin. |
| R-17-0009 | Pending | 03/01/17 | Varela | Camacho | Staff to investigate how to access and utilize the County Reverse 911 Notification System and report back to the Board. | 03/22/17 | | |

*Report Name: Board Requests Report* *Informal* *Order by: DIRECTOR*

| Request | Completed Date | Request Date | Director | GM / AGM | Description | 20 Days Due Date | Expected Completion Date | Disposition |
|---|---|---|---|---|---|---|---|---|
| I-17-0004 | Pending | 03/02/17 | Kremen | Stanton | Provide Director Kremen with a copy of the Official Statement (OS) for the Santa Clara Valley Water District Refunding and Improvement Certificates of Participation, Series 2017A, as well as the Supplemental disclosure regarding the SJ flooding. | 03/23/17 | | |
| I-17-0002 | Pending | 02/27/17 | Varela | Camacho | Chair Varela met with Assembly Member Anna Caballero and wants to send a follow up letter for another meeting in a month or so to discuss San Benito and Pajaro River. | 03/19/17 | | |
| I-17-0003 | Pending | 03/01/17 | Varela | Camacho | Schedule a tour of the District's EOC for the Directors. | 03/22/17 | | |

Santa Clara Valley Water District

# MEMORANDUM

FC 14 (01-02-07)

**TO:** Board of Directors

**FROM:** Jim Fiedler, P.E. D.WRE

**SUBJECT:** Transmission of Summary of O&M Activities Report

**DATE:** March 15, 2017

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At each quarterly Water Retailer Meeting, a summary report of the previous quarter's water utility operations and maintenance (O&M) activities is shared with the water retailers. The March 15, 2017 Summary of O&M Activities report is attached to this memorandum for the Board's information.

Jim Fiedler, P.E., D.WRE
Chief Operating Officer
Water Utility Enterprise

Attachment: March 15, 2017 Summary of O&M Activities

# Quarterly Water Retailers Meeting
March 15, 2017

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**Agenda Item No.:** 4.4
**Speaker:** Angela Cheung
**Presenter Item:** Summary of O&M Activities

The following is a summary of water utility operations and maintenance activities for the last quarter.

**Treated Water Deliveries:**
January Contract – 5,917 AF delivered, 91% of adjusted contract
February Contract – 5,089 AF delivered, 83% of adjusted contract

**Purified Water Deliveries:**
January 2017 – 138 AF
February 2017 – 116 AF

**Water Quality**
Fluoridation:
Fluoridation has been going smoothly at Santa Teresa WTP since the successful startup on December 12, 2016. Construction of fluoride facilities at Penitencia WTP is well underway with a target completion date in June 2017.

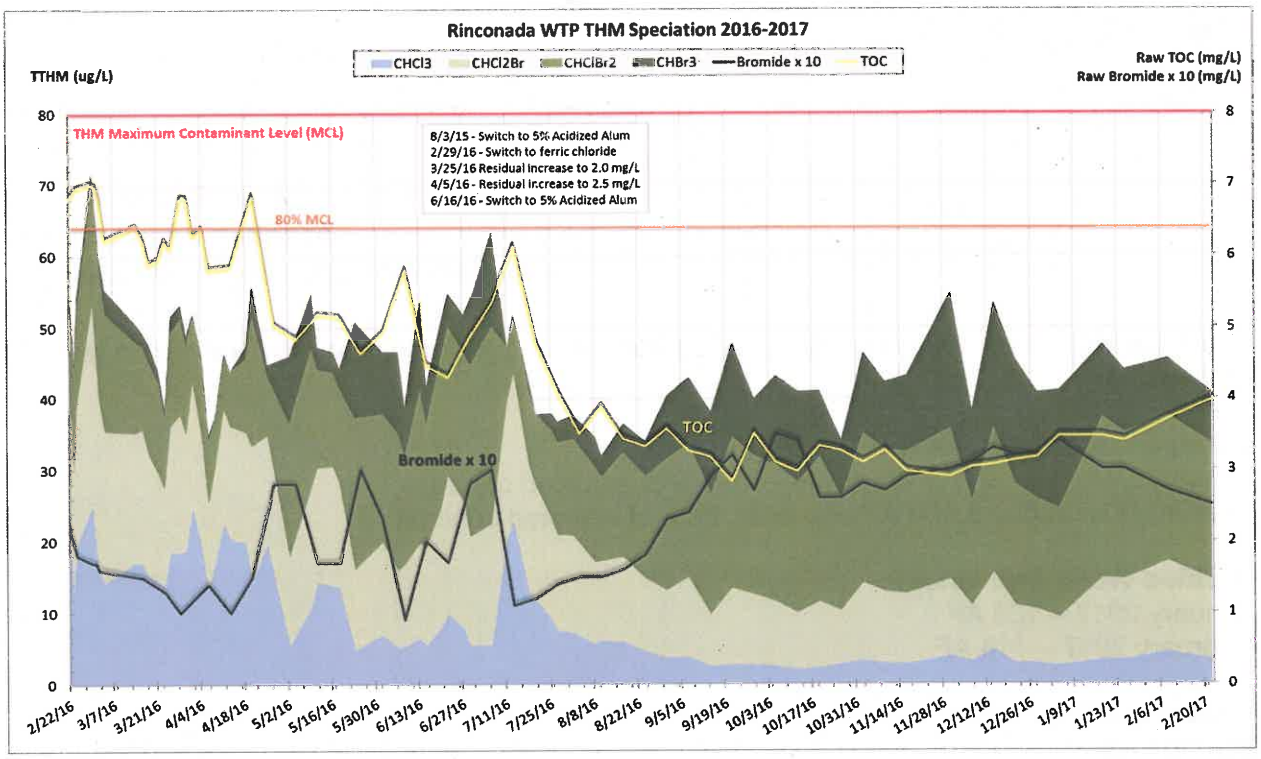
Water Quality Update:
Staff continues to monitor source water quality conditions and implement treatment changes to meet water quality objectives. See graphs below for treatment plant water quality data.

- Penitencia has been shut down since October 17th. Since that time Rinconada and Santa Teresa have both received 100% San Luis Reservoir source water for all but 6 days.

- As anticipated, with record rains, TOC in San Luis Reservoir has gradually climbed from 3.0 ppm in December to the current value of 4.0 ppm and bromide has dropped from .32 ppm in December to .23 ppm.

- Trihalomethane (THM) levels remained low on the east side system. THMs leaving Rinconada have been relatively steady with levels consistently below 50 ppb and in the 50 – 60 ppb range in the west side system.

- Taste and odor compounds, MIB and geosmin, have been below detection levels since mid-October at Santa Teresa and Rinconada.


Rinconada WTP THM Speciation 2016-2017
CHCl3
CHCl2Br
CHClBr2
CHBr3
Bromide x 10
TOC
TTHM (ug/L)
Raw TOC (mg/L)
Raw Bromide x 10 (mg/L)
THM Maximum Contaminant Level (MCL)
80% MCL
8/3/15 - Switch to 5% Acidized Alum
2/29/16 - Switch to ferric chloride
3/25/16 Residual increase to 2.0 mg/L
4/5/16 - Residual increase to 2.5 mg/L
6/16/16 - Switch to 5% Acidized Alum
Bromide x 10
TOC
2/22/16
3/7/16
3/21/16
4/4/16
4/18/16
5/2/16
5/16/16
5/30/16
6/13/16
6/27/16
7/11/16
7/25/16
8/8/16
8/22/16
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10/17/16
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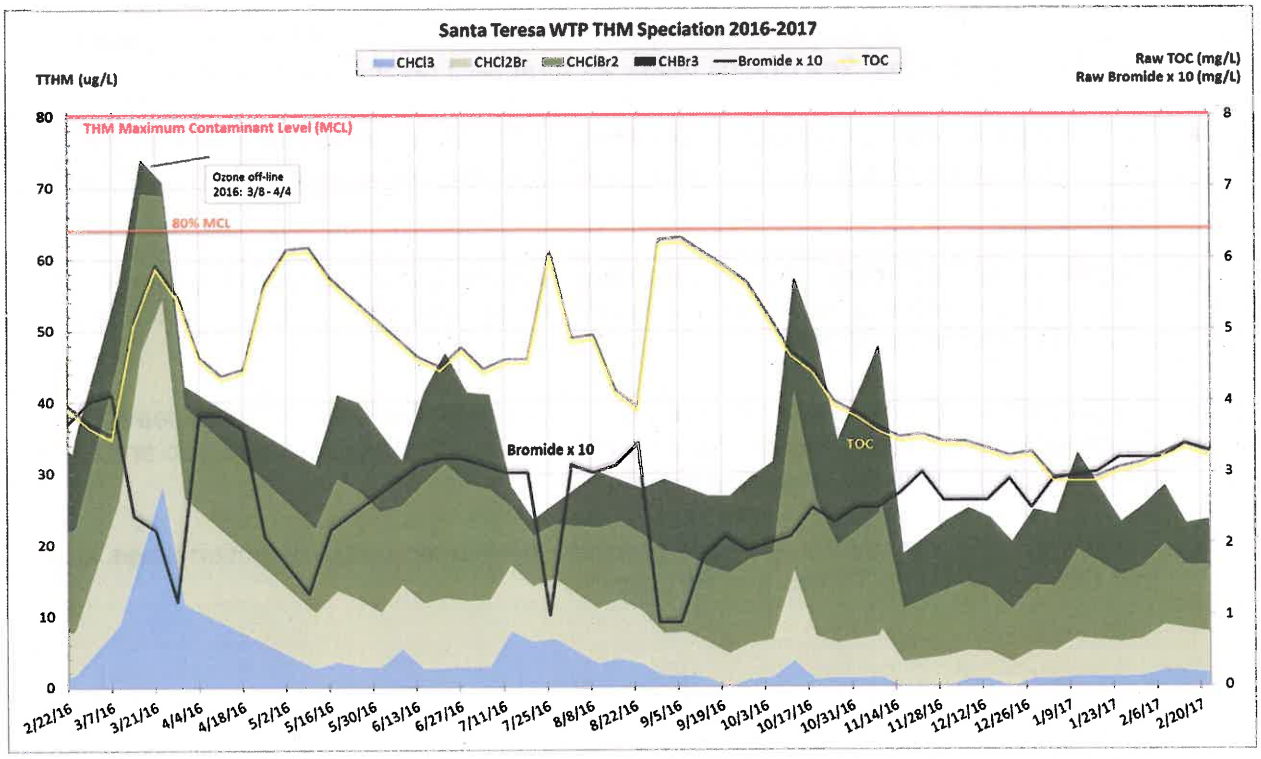
2/6/17
2/20/17


Santa Teresa WTP THM Speciation 2016-2017
CHCl3
CHCl2Br
CHClBr2
CHBr3
Bromide x 10
TOC
TTHM (ug/L)
Raw TOC (mg/L)
Raw Bromide x 10 (mg/L)
THM Maximum Contaminant Level (MCL)
80% MCL
Ozone off-line
2016: 3/8 - 4/4
Bromide x 10
TOC
2/22/16
3/7/16
3/21/16
4/4/16
4/18/16
5/2/16
5/16/16
5/30/16
6/13/16
6/27/16
7/11/16
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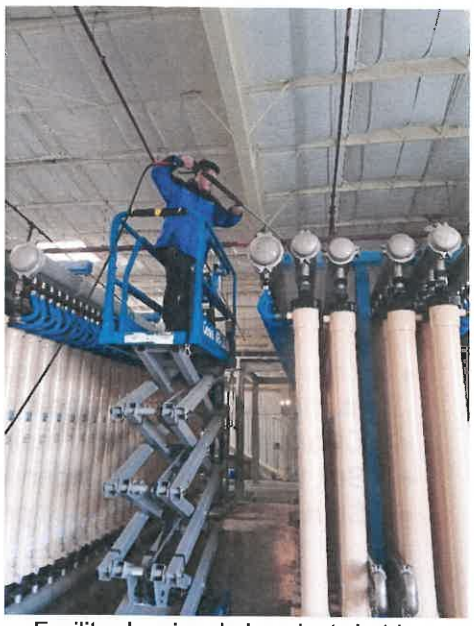
9/19/16
10/3/16
10/17/16
10/31/16
11/14/16
11/28/16
12/12/16
12/26/16
1/9/17
1/23/17
2/6/17
2/20/17

**Silicon Valley Advanced Water Purification Center (SVAWPC):**
SVAWPC had a planned shutdown the week of January 23 to facilitate South Bay Water Recycling's project of installing a new flow meter on the 54-inch tertiary effluent pipeline. SVAWPC took advantage of the plant shutdown to complete biennial electrical testing and maintenance of the electrical system. SVAWPC came back online on February 1.

Installation of a new motor for reverse osmosis feed pump #3 was completed on January 31, and both pump and motor have been running smoothly since then. SVAWPC is ready for the high flow season with full capacity of 8 MGD.

Plant mechanic Tim Ayres preparing the RO motor for installation



Facility cleaning during plant shutdown

**Penitencia Water Treatment Plant and SCVWD-SFPUC Intertie:**
Penitencia has been offline since October 16, 2016 and will remain offline for approximately eight months to support construction of four capital improvement projects at the plant: Penitencia Delivery Main/Penitencia Force Main Seismic Retrofit Project, Clearwell Roof Replacement Project, Operations Building Seismic Retrofit Project, and Fluoridation Project.

Penitencia operators continue their rotation to the other District water treatment plants and SVAWPC for cross-training.

The Santa Clara Tunnel, which is a part of the San Felipe system, will undergo inspection on March 12th. A portion of the Santa Clara Conduit will be drained to facilitate the inspection. Santa Teresa WTP will use Calero Reservoir as the water source, which can supply roughly 32-35 MGD. With projected demand on the East Pipeline at 30-45 MGD, the SCVWD-SFPUC Intertie will be put in service to help meet peak demands from the retailers. Penitencia operators will be operating the Intertie for the 3 to 4 days the Intertie is expected to be in operation.

With the plant offline for 8 months, maintenance staff are executing asset replacements and refurbishments that can only be completed during a plant shutdown. Some of the work completed in January and February includes:

- Replaced non-ionic polymer batch tanks original to the plant

Old tanks removed

New tanks in place and appurtenance installation in progress

- Completed biennial electrical testing for 480VAC breakers, 12kV switchgear and medium voltage power distribution systems
- Cleaned and repainted main substation
- Belt press rebuild is underway
- Started rebuild of the belt press take out conveyor

Belt press with all rolls removed.

Belt press receiving a fresh coat of paint.

**Rinconada Water Treatment Plant (RWTP):**
The primary focus for Rinconada this quarter is to facilitate 3 plant shutdowns to support construction of the Reliability Improvement Project and complete plant winter maintenance activities. Staff from other facilities were deployed to Rinconada during the shutdowns to help complete the work activities.
Major work activities completed during this period include:

- Polymer Pump Feed Lines – To correct clogging of the polymer pump feed lines for the centrifuges, the plant mechanic team removed all the old piping, installed a new bung in each tank, and ran new, larger, and redundant piping with basket strainers. The larger piping will clog less often, and make it easier to clear away clogs.

- OCL Injection Lines – Sodium hypochlorite (OCL) lines at Rinconada build up calcium carbonate scales over time requiring the lines to be cleared once or twice a year. The plant mechanics flushed all OCL lines with phosphoric acid, clearing scales from the lines during 2 of the plant shutdowns.

OCL Injection line before and after

- 12kV to 480VAC Transformer Adjustment – The 480VAC equipment have experienced low voltage conditions a number of times over the last few years. During the February shutdown, the electrical team re-tapped the main transformers to raise secondary voltage from 460VAC to 480VAC, which should help reduce the number of "low voltage" nuisance alarms.

- Metering Pump Control Cabinet Tie-ins to Main UPS System – Until this quarter, the ammonia, phosphoric acid, and the caustic soda control panels each had small individual UPSs located inside their control panels. The failure of a similar UPS setup in the OCL cabinet a couple of years back highlighted the need to improve this setup. During this quarter's shutdowns, the electrical team re-wired the ammonia, phosphoric acid, and caustic soda control panels into the plant's main UPS power, which will improve their reliability.

- Electrical Testing – Biennial electrical testing on all 12kV switchgear and 480VAC distribution breakers and appurtenances was completed during the February shutdown.

- Ferric Chloride Injection Quill – The old ferric injection quill was made of PVC with bulk tubing attached with metal hose clamps. Ferric chloride is corrosive and not compatible with most metals. The mechanics replaced this injection quill with a Hasteloy C quill and replaced the tubing with hard piping, improving compatibility and safety of the system.

- Ammonia System Improvements – Ammonia system improvements are taking place at all 3 water treatment plants. At Rinconada, the PVC feed lines from the tank to the pump manifold will be replaced with stainless steel piping during the March shutdown.

- WPL Hydraulic Grade Line Transmitter Calibrations – Settings documentation and calibrations of all the West Pipeline hydraulic grade line transmitters are due. The control technicians calibrated transmitters and documented the settings in this quarter. The techs also replaced the Farndon transmitter, and will begin replacing transmitter pulse tubing at each turnout during the March shutdown.

New stainless steel ammonia piping

Hydraulic grade line transmitter replacement at Farndon Turnout

**Santa Teresa Water Treatment Plant (STWTP):**
To facilitate the scheduled Santa Clara tunnel inspection, from March 11th to March 13th, the plant is scheduled to switch source water to Calero Reservoir.

Since this source change will limit Santa Teresa's capacity to 32 – 35 MGD, SFPUC Intertie will be available to supplement East Pipeline demand. Currently Santa Teresa is the only District facility supporting the East Pipeline. Therefore, staff continues to carry out operations and maintenance activities designed to ensure the reliable and uninterrupted operation of the facility.

During FY17 several of the alum and phosphoric acid metering pumps are scheduled for replacement. Maintenance staff has started systematically replacing the pumps.

Replacement of Alum pump #3; 2 of 3 pumps have been replaced

Phosphoric acid pump being replaced

Flocculation Mixer MX-33 – There are 26 Flocculation Basin mixers at Santa Teresa. Mixers are being replaced as they are approaching their "end of life" cycle. The pictures show one of the mixers being replaced in this quarter.

Tank Farm Sun Shade – The sun shades at the chemical storage tank farm have been deteriorating from years of sun exposure. Maintenance staff replaced 2 shades covering the Ammonia tank and sodium hypochlorite tanks in this quarter. The new sun shades will protect the tanks and exposed piping for the next 20 years.

New sun shades at the chemical storage tank farm

**Pump Station and Pipeline Maintenance and Raw Water Field Operations:**

Alamitos Turnout Valve Repair

District staff installed a repaired 12-inch sleeve valve at the Alamitos Turnout. Repairing this valve, rather than replacing it, saved approximately $50,000. This valve was replaced using LOCK-N-STITCH Inc.'s proprietary, patented mechanical crack repair process "metal stitching" which permanently repairs cracks or blow-out holes without welding.

Alamitos Turnout supplies water from the Santa Clara Conduit to Alamitos Creek which in turn can supply water to Alamitos and Guadalupe Percolation Ponds.

Repaired sleeve valve

Pacheco Pumping Plant Rebuilds Well Underway

In 2007, District staff discovered intergranular stress corrosion cracking (IGSCC) in the 403/410 stainless steel wear rings installed on the original pump impellers and came up with the following recommendations:

- As pumps are due for rebuild, replace existing 403/410 stainless steel wear rings with Nitronic 60 stainless steel wear rings for the pump impellers.
- Nitronic 60 is a galling and wear resistant austenitic stainless steel and should be used in the wear ring application.

To date, the stainless steel 403/410 wear rings have been replaced with Nitronic 60 wear rings on 11 of the 12 Pacheco Pumping Plant pumps.

As reported last quarter, pumps #2 and #10 at Pacheco Pumping Plant are currently undergoing pump rebuild. Pump #10 is the last pump to have its impeller wear rings replaced. Accordingly, more extensive rebuilding and rehabilitation is required for pump #10.

Third-stage impeller bowl

Vasona Dam Radial Gate Cable Replacement

There are two radial gates located at the Vasona Dam in Los Gatos. One of the carbon steel cables failed during a recent operation. Staff replaced all 4 cables for the 2 radial gates with 304 stainless steel cables for added durability.

Vasona Dam with radial gates shown in the center of the photo

Valve Replacement on Gilroy Reclamation Line

A 6-inch valve on the South County recycled water system serving the Gilroy Golf Course along Hecker Pass failed recently. When the broken valve was excavated, it was discovered that there were concrete thrust blocks poured on both sides of the valve with no dismantling coupling. To replace the buried valve would have required a great deal more excavation, shoring and jack hammering to remove the concrete. After consulting with City of Gilroy staff, the valve was installed above ground, which improved accessibility for valve operation.

Replaced valve on Gilroy Reclamation line

Raw Water Field Operations Staff Very Busy!

With much heavier rainfall than normal, Raw Water Field Operations staff have been kept very busy with reservoir regulations, canal operations, damage inspections, and blockage removals. The District's water resource technicians (also known as "water masters") operate 10 reservoirs, 6 different raw water recharge systems, raw water turnouts, water diversion structures, fish ladders, canals, ditches, ponds, and pipelines. They also monitor releases for in stream and off stream flows for fish and wildlife habitat along with regulating reservoir releases for flood control rule curves and maintaining compliance with Division of Safety of Dams (DSOD) rules and regulations of reservoir elevations.

Santa Clara Valley Water District

# MEMORANDUM

FC 14 (01-02-07)

**TO:** Board of Directors

**FROM:** Chris Elias

**SUBJECT:** Water Watch, Publication by Coalition for A Sustainable Delta

**DATE:** March 21, 2017

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In its "Water Watch" edition of March 10, 2017, the *Coalition for A Sustainable Delta* published the attached newsletter with an important reminder "for state and federal policymakers to seek a better balance of the need to protect fish and the needs of all Californians." To view this publication online, please click here: https://sustainabledelta.com/water-watch/tone-deaf/

Chris Elias
Deputy Administrative Officer
Office of CEO & Board Support

COALITION FOR A SUSTAINABLE DELTA
SOLVING THE SACRAMENTO-SAN JOAQUIN DELTA CRISIS
WATER WATCH
March 10, 2017

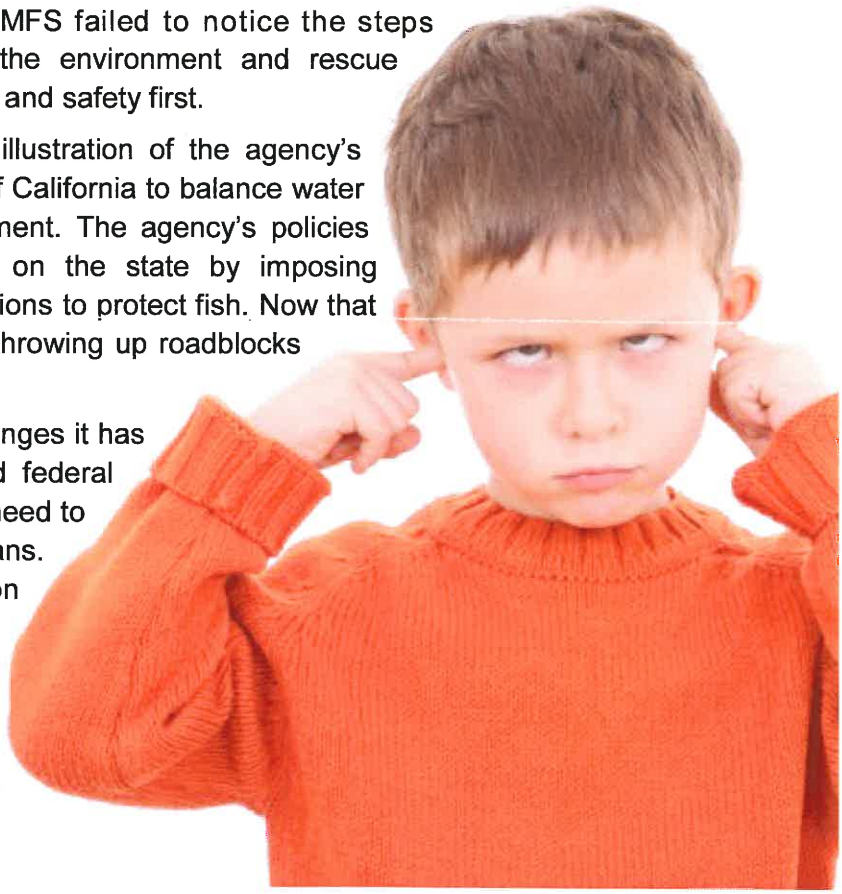
# TONE DEAF

California's ongoing torrent of wet weather has revealed weaknesses in Northern California's dams and levees. The threat of catastrophic flooding from the damaged Oroville Dam spillway recently forced the emergency evacuation of 200,000 people. Northern California families were forced to flee with no advanced warning.

The Brown Administration and the Department of Water Recourses have been working around the clock to protect public safety and cope with a full reservoir and shaky levees in anticipation of more storms and spring and summer run-off.

While the Trump administration has been cooperating with California during this time of crisis, one federal agency seems to have missed the urgent directive to protect public safety. **We're not surprised since the National Marine Fisheries Service (NMFS) has been putting the needs of fish before the needs of people for some time.** During this time of crisis, NFMS felt compelled to send a threatening letter to state officials to "minimize the effects" to fish and habitat downstream, including conducting the emergency repair work only at night. The callous disregard for public safety is astonishing.

**A response letter from state water leaders refers to NMFS as an agency "that is tone deaf to anything other than a myopic protection of species by any means necessary without regard for human impact."** Apparently, NMFS failed to notice the steps taken by state wildlife officials to protect the environment and rescue stranded fish while aptly putting human health and safety first.



Unfortunately, the NMFS letter is a further illustration of the agency's inability to work cooperatively with the state of California to balance water supply needs for residents and the environment. The agency's policies have greatly exacerbated drought impacts on the state by imposing additional and ineffective water supply restrictions to protect fish. Now that the drought is ending, NMFS regulators are throwing up roadblocks to public protection and long-term solutions.

As we move beyond this winter and the challenges it has presented, it will be important for state and federal policymakers to seek a better balance of the need to protect fish and the needs of all Californians. California has a great deal of work to do on water supply, conveyance and flood protection. **With that in mind, it will be critical to have all state and federal agencies aligned, working together, and not ignoring the needs of residents and the state's economy.**

Santa Clara Valley Water District

# MEMORANDUM

FC 14 (01-02-07)

**TO:** Board of Directors

**FROM:** Norma Camacho

**SUBJECT:** Presentation of completed SCW Grant Project – Vasona Creek Stream Stabilization and Habitat Enhancement Phase 2

**DATE:** March 24, 2017

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The purpose of this memorandum is to inform the Board of the completion of the Safe, Clean Water and Natural Flood Protection Grant Project: Vasona Creek Stream Stabilization and Habitat Enhancement Phase 2 (Project). Notification of the enclosed final report was reported in this week's CEO Bulletin.

West Valley College (WVC) received a $300,000 grant to fund habitat restoration on Vasona Creek at the WVC campus. The Project included the reconstruction of a 740-foot long channel segment to add habitat complexity and stabilize a highly eroding portion of the channel. Non-native vegetation along the reconstructed channel and adjacent floodplain areas was removed and replaced with native plants.

Vasona Creek is a major tributary to San Tomas Aquino Creek, which drains to the Lower South San Francisco Bay. Urbanization within the Vasona Creek watershed has increased flow and hydraulic forces acting on the channel, resulting in channel incision and bank erosion that threatens mature riparian trees and results in poor water quality. The Project is part of a larger restoration program designed to stabilize and enhance ecologic function of the Vasona Creek channel and enhance native vegetation within the riparian corridor within the WVC campus. The Project is a continuation of the Phase 1 channel restoration work that was completed during 2014. The two completed projects have raised the channel bed and reconstructed the channel floodplain surfaces to increase overbank connectivity and reduce hydraulic stresses, promoting long-term channel stability. In addition, channel reconstruction will raise groundwater levels and enhance native vegetation.

Key outcomes achieved:

- Complete restoration of severely eroded and deeply cut creek channel section
- Restoration of riparian habitat
- Creation of active college administration/faculty "Stream Team" integrating project into curriculum
- Creation of natural outdoor "classroom" and living laboratory in newly restored creek corridor
- Raised student and public awareness of environmental issues and restoration

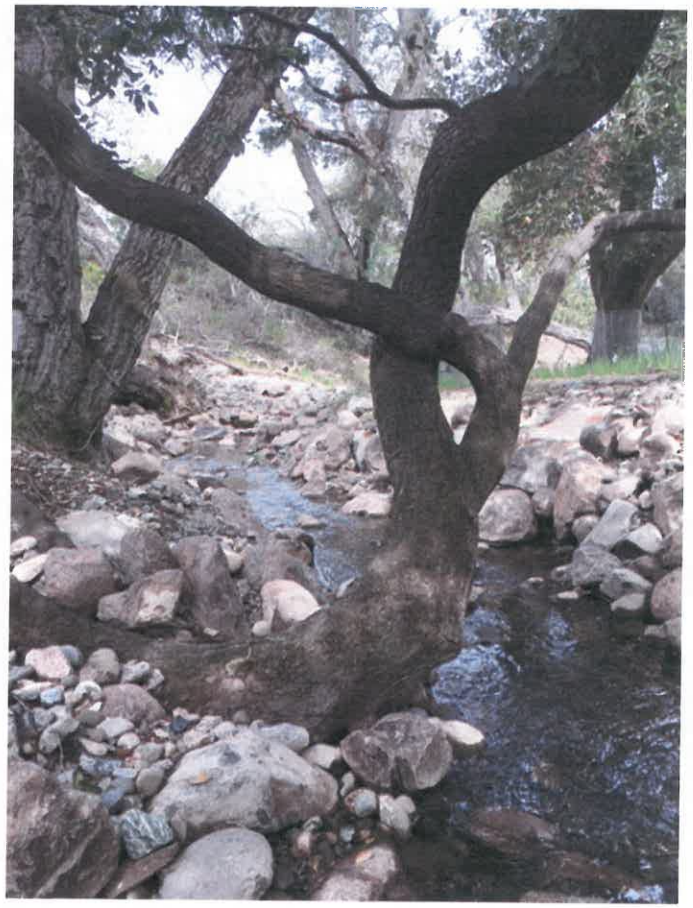
For additional information, please contact Chris Elias at (408) 630-2379.

Norma J. Camacho
Interim Chief Executive Officer

Attachment 1: Power Point Presentation
Attachment 2: Project Fact Sheet
cc: SCW Grants file, C. Elias, K. DuQuite

# Completion of SCVWD Grant A3762R:

## Vasona Creek at West Valley College
## Stream Stabilization and Habitat Enhancement
## Phase 2



West Valley College

## Funding Program:

**2014 Safe, Clean Water Priority D Grant**

## Project Timing:

**Start Date: July 30, 2014**

**End Date: November 15, 2016**

## Project Location:

**West Valley College**

**1400 Fruitvale Avenue**

**Saratoga, CA**

## Project Funding:

**SCVWD Funding: $300,000**

**Total Project Cost: $689,556**

**Grantee's Cost Share: 56%**

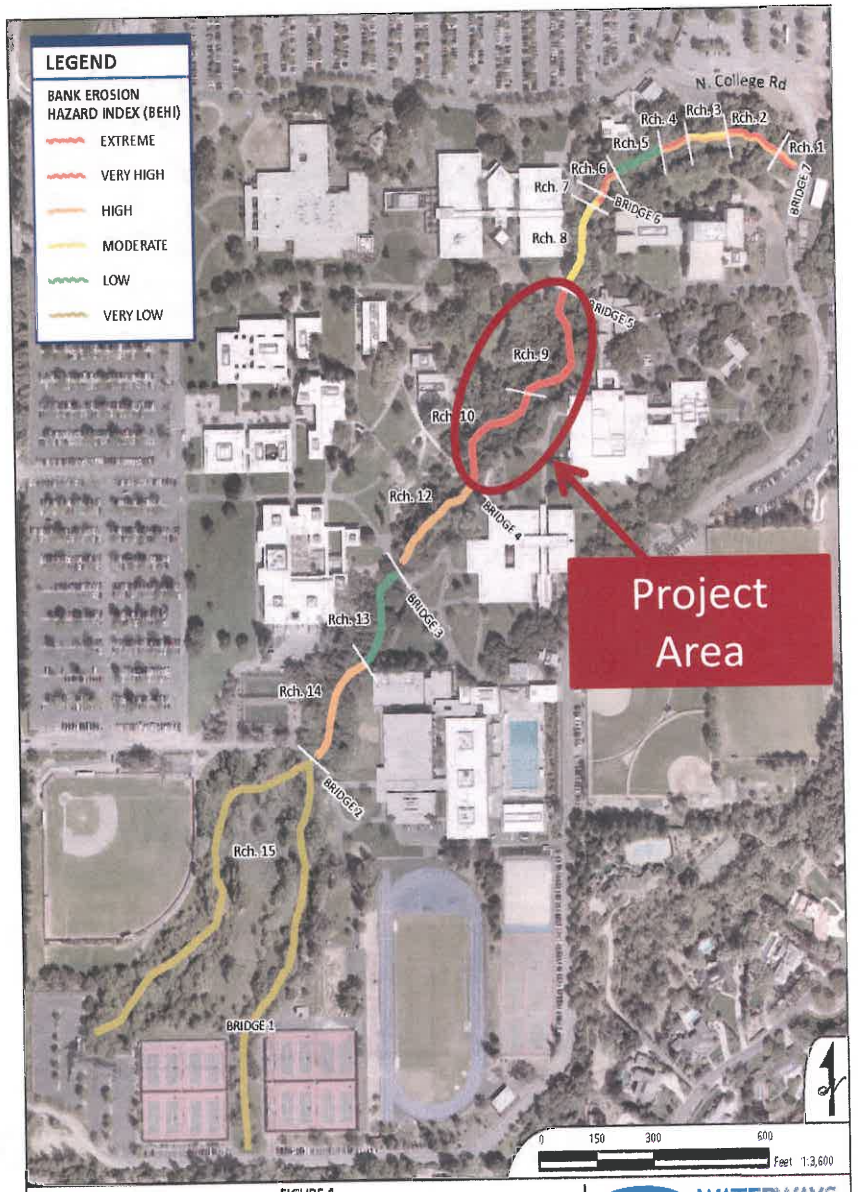


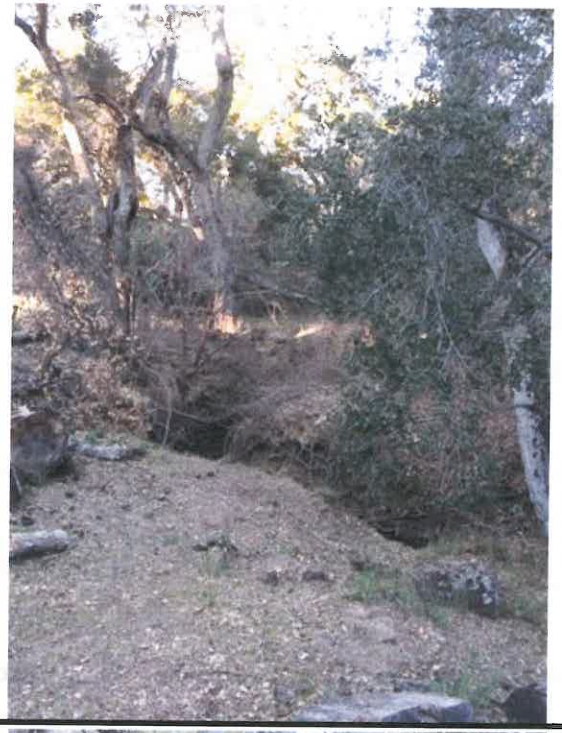

FIGURE 4
Bank stability assessment of Vasona Creek at the West Valley College campus. Assessment conducted using methods adapted from Rosgen, 1996.

WATERWAYS CONSULTING, INC.

WVC-Vasona Creek Grant Page 17 of 39 3/14/2011

West Valley College

## Before



## After

West Valley College

# Stream Stabilization and Habitat Enhancement Phase 2 Project Summary

**Key numbers:**

- 740 linear feet of severely eroded and deeply cut channel reconstructed
- 0.2 acres of native riparian vegetation seeded and planted
- 432 native plants installed, including 85 willows alongside channel
- 36 Dusky Footed Woodrat nests protected in construction area, 15 nests relocated
- 10-year Monitoring, Maintenance and Reporting Plan
- Grantee's cost share: 56%

**Key outcomes:**

- ✓ Complete restoration of severely eroded and deeply cut creek channel section
- ✓ Restoration of riparian habitat
- ✓ Creation of active college administration/faculty "Stream Team" integrating project into curriculum
- ✓ Creation of natural outdoor "classroom" and living laboratory in newly restored creek corridor
- ✓ Raised student and public awareness of environmental issues and restoration
- ✓ Collaboration and overwhelming support from City of Saratoga, neighborhood groups, and local press
- ✓ Extensive public engagement with community workshops
- ✓ Volunteer hours from WVC student groups and local church groups
- ✓ Demonstrates that project is scalable and replicable

West Valley College

**Point of Contact:**

**Bill Taylor**
**Director Facilities Maintenance**
**West Valley-Mission**
**Community College District**
**408-741-2642**
**Bill.Taylor@wvm.edu**

**Fact Sheet for: Vasona Creek at West Valley College, Stream Stabilization and Habitat Enhancement Phase 2 Project**

**Funding Year and Agreement Number:** 2014, A3762R
**Funding Program:** 2014 Safe, Clean Water Priority D Grant Program
**Project Start Date:** July 30, 2014
**Project Completion Date:** November 15, 2016
**Project Location:** West Valley College, 1400 Fruitvale Avenue, Saratoga CA
**Lead Agency and Partners:** West Valley-Mission Community College District
**District's Funding Contribution:** $300,000 **Total Project Cost:** $689,556

**Project description:**
The Vasona Creek Stream Stabilization and Habitat Enhancement Phase 2 Project included reconstruction of a 740-foot long channel segment to add habitat complexity and stabilize a highly eroding portion of the channel. Non-native vegetation along the reconstructed channel and adjacent floodplain areas was removed and replaced with native plants.

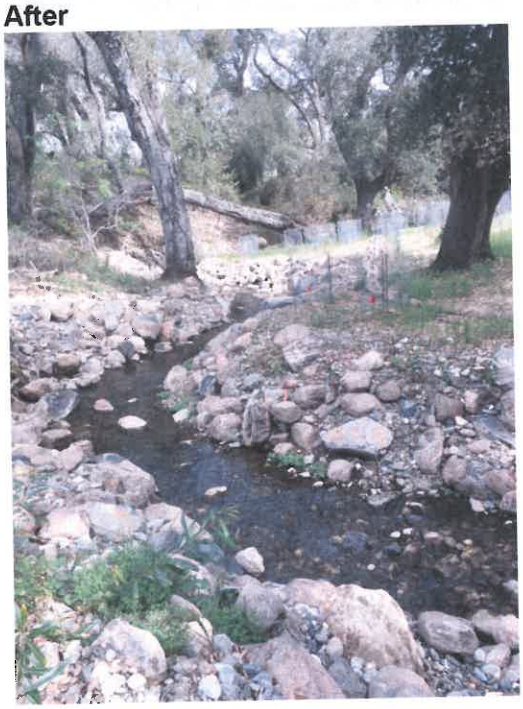
The purpose of the project was to improve habitat along a reach of Vasona Creek at the West Valley College (WVC) Campus. Vasona Creek is a major tributary to San Tomas Aquino Creek, which drains to the Lower South San Francisco Bay. Urbanization within the Vasona Creek watershed has increased flow and hydraulic forces acting on the channel, resulting in channel incision and bank erosion that threatens mature riparian trees and results in poor water quality. The Phase 2 Project is part of a larger restoration program designed to stabilize and enhance ecologic function of the Vasona Creek channel and enhance native vegetation within the riparian corridor within the WVC campus. Phase 2 is a continuation of the Phase 1 channel restoration work that was completed during 2014. Both phases raised the channel bed and reconstructed the channel floodplain surfaces to increase overbank connectivity and reduce hydraulic stresses, promoting long-term channel stability. In addition, channel reconstruction will raise groundwater levels and enhance native vegetation.

**Key outcomes or benefits achieved or deliverables completed:**
1. Complete restoration of severely eroded and deeply cut creek channel section
2. Restoration of riparian habitat
3. Creation of active college administration/faculty "Stream Team" integrating project into curriculum
4. Creation of natural outdoor "classroom" and living laboratory in newly restored creek corridor
5. Raised student and public awareness of environmental issues and restoration
6. Collaboration and overwhelming support from City of Saratoga, neighborhood groups, and local press
7. Extensive public engagement with community workshops
8. Volunteer hours from WVC student groups and local church groups
9. Demonstrates that project is scalable and replicable.

**Key numbers:**
1. 740 linear feet of severely eroded and deeply cut channel reconstructed
2. 0.2 acres of native riparian vegetation seeded and planted
3. 432 native plants installed, including 85 willows alongside channel
4. 36 Dusky Footed Woodrat nests protected in construction area, 15 nests relocated
5. 10-year Monitoring, Maintenance and Reporting Plan
6. Grantee's cost share: 56%

**Before**

**After**



**Point of contact:**
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