

October 3, 2016

MEETING NOTICE & REQUEST FOR RSVP

TO: ENVIRONMENTAL AND WATER RESOURCES COMMITTEE

<u>Jurisdiction</u>	<u>Representative</u>	<u>Representative</u>	<u>Representative</u>
District 1	Bonnie Bamburg	Loren Lewis	Rita Norton
District 2	Patricia Colombe	Elizabeth Sarmiento	
District 3	Hon. Dean Chu	Rev. Jethroe Moore, II	Charles Taylor
District 4	Bob Levy	Susan M. Landry	Richard R. Zahner
District 5	Marc Rauser	Nancy Smith	
District 6	Kit Gordon	Hon. Patrick Kwok	
District 7	Tess Byler	Arthur M. Keller, Ph.D.	Stephen A. Jordan

The rescheduled meeting of the Environmental and Water Resources Committee is scheduled to be held on **Monday, October 17, 2016, at 6:00 p.m.** in the Headquarters Building Boardroom located at the Santa Clara Valley Water District, 5700 Almaden Expressway, San Jose, California. Dinner will be served.

Enclosed are the meeting agenda and corresponding materials. Please bring this packet with you to the meeting. Additional copies of this meeting packet are available on-line at <http://www.valleywater.org/About/EnvironmentalandWaterResourcesCommittee.aspx>.

A majority of the appointed membership is required to constitute a quorum, which is fifty percent plus one. A quorum for this meeting must be confirmed at least 48 hours prior to the scheduled meeting date or it will be canceled.

Further, a quorum must be present on the day of the scheduled meeting to call the meeting to order and take action on agenda items.

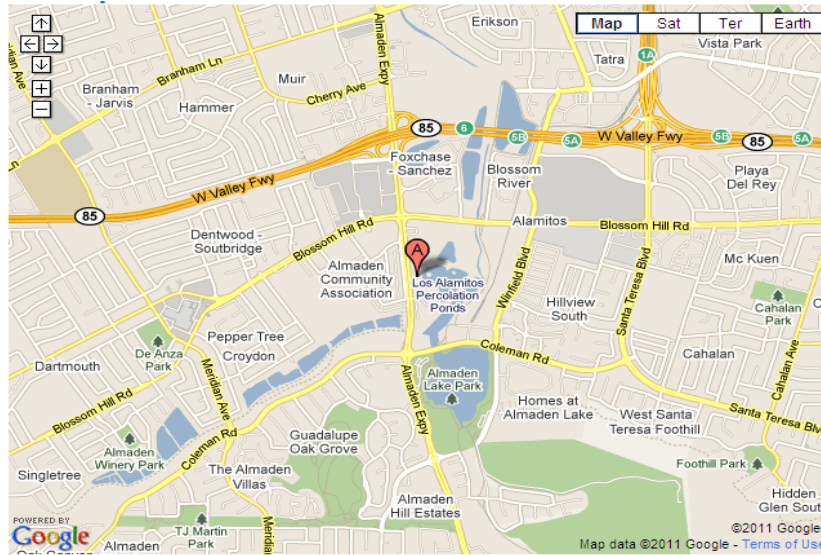
Members with two or more consecutive unexcused absences will be subject to rescinded membership.

Please confirm your attendance by contacting Michelle Critchlow at 1-408-630-2883, or mcritchlow@valleywater.org.

Enclosures



**Santa Clara Valley Water District - Headquarters Building,
5700 Almaden Expressway, San Jose, CA 95118**



From Oakland:

- Take 880 South to 85 South
- Take 85 South to Almaden Expressway exit
- Turn left on Almaden Plaza Way
- Turn right (south) on Almaden Expressway
- At Via Monte (third traffic light), make a U-turn
- Proceed north on Almaden Expressway approximately 1,000 feet
- Turn right (east) into the campus entrance

From Morgan Hill/Gilroy:

- Take 101 North to 85 North
- Take 85 North to Almaden Expressway exit
- Turn left on Almaden Expressway
- Cross Blossom Hill Road
- At Via Monte (third traffic light), make a U-turn
- Proceed north on Almaden Expressway approximately 1,000 feet
- Turn right (east) into the campus entrance

From Sunnyvale:

- Take Highway 87 South to 85 North
- Take Highway 85 North to Almaden Expressway exit
- Turn left on Almaden Expressway
- At Via Monte (third traffic light), make a U-turn
- Proceed north on Almaden Expressway approximately 1,000 feet
- Turn right (east) into the campus entrance

From San Francisco:

- Take 280 South to Highway 85 South
- Take Highway 85 South to Almaden Expressway exit
- Turn left on Almaden Plaza Way
- Turn right (south) on Almaden Expressway
- At Via Monte (third traffic light), make a U-turn
- Proceed north on Almaden Expressway approximately 1,000 feet
- Turn right (east) into the campus entrance

From Downtown San Jose:

- Take Highway 87 - Guadalupe Expressway South
- Exit on Santa Teresa Blvd.
- Turn right on Blossom Hill Road
- Turn left at Almaden Expressway
- At Via Monte (first traffic light), make a U-turn
- Proceed north on Almaden Expressway approximately 1,000 feet
- Turn right (east) into the campus entrance

From Walnut Creek, Concord and East Bay areas:

- Take 680 South to 280 North
- Exit Highway 87-Guadalupe Expressway South
- Exit on Santa Teresa Blvd.
- Turn right on Blossom Hill Road
- Turn left at Almaden Expressway
- At Via Monte (third traffic light), make a U-turn
- Proceed north on Almaden Expressway approximately 1,000 feet
- Turn right (east) into the campus entrance



Committee Officers
Hon. Dean Chu, Chair
Mr. Loren Lewis, Vice Chair

Board Representative
Tony Estremera, Board Representative
Nai Hsueh, Board Alternate
Linda J. LeZotte, Board Representative

AGENDA

ENVIRONMENTAL AND WATER RESOURCES COMMITTEE

MONDAY, OCTOBER 17, 2016

6:00 p.m. – 8:00 p.m.

Santa Clara Valley Water District
Headquarters Building Boardroom
5700 Almaden Expressway
San Jose, CA 95118

Time Certain:
6:00 p.m.

1. **Call to Order/Roll Call**
2. **Time Open for Public Comment on Any Item Not on Agenda**
Comments should be limited to two minutes. If the Committee wishes to discuss a subject raised by the speaker, it can request placement on a future agenda.
3. **Approval of Minutes**
3.1 Approval of Minutes – August 22, 2016, rescheduled meeting
4. **Action Items**
4.1 Water Supply Update (Tracy Hemmeter)
Recommendation: This is an information item only and no action is required.
4.2 Receive Status Update from Working Groups (Committee Chair)
Recommendation: Provide comment to the Board in the implementation of the District's mission as it applies to the working groups' recommendations.
4.3 Review Environmental and Water Resources Committee Work Plan, the Outcomes of Board Action of Committee Requests and the Committee's Next Meeting Agenda (Committee Chair)
Recommendation: Review the Board-approved Committee work plan to guide the committee's discussions regarding policy alternatives and implications for Board deliberation.
5. **Information Only Items**
Informational only items are not for discussion or action. However, clarifying questions may be asked, and will be called for by the Chair.
5.1 Receive Update on the Fisheries and Aquatic Habitat Collaborative Effort (FAHCE) Process (Sarah Young)
Recommendation: This is an information item only and no action is required.
5.2 Overview of the Safe, Clean Water Program (Chris Elias)
Recommendation: This is an information item only and no action is required.

6. **Clerk Review and Clarification of Committee Requests to the Board**

This is a review of the Committee's Requests, to the Board (from Item 4). The Committee may also request that the Board approve future agenda items for Committee discussion.

7. **Reports**

Directors, Managers, and Committee members may make brief reports and/or announcements on their activities. Unless a subject is specifically listed on the agenda, the Report is for information only and not discussion or decision. Questions for clarification are permitted.

7.1 Director's Report

7.2 Manager's Report

7.3 Committee Member Reports

8. **Adjourn:** Adjourn to next regularly scheduled meeting at 6:00 p.m., **January 23, 2017**, in the Headquarters Building Boardroom, 5700 Almaden Expressway, San Jose, CA 95118

All public records relating to an open session item on this agenda, which are not exempt from disclosure pursuant to the California Public Records Act, that are distributed to a majority of the legislative body will be available for public inspection at the Office of the Clerk of the Board at the Santa Clara Valley Water District Headquarter Building, 5700 Almaden Expressway, San Jose, CA., 95118, at the same time that the public records are distributed or made available to the legislative body.

The Santa Clara Valley Water District will make reasonable efforts to accommodate persons with disabilities wishing to attend committee meetings. Please advise the Clerk of the Board office of any special needs by calling 1-408-630-2277.

Environmental and Water Resources Committee's Purpose and Duties

The Environmental and Water Resources Committee of the Santa Clara Valley Water District is established to assist the Board of Directors (Board) with policies pertaining to water supply, flood protection and environmental stewardship.

The specific duties are:

- Prepare policy alternatives;
- Provide comment on activities in the implementation of the District's mission; and
- Produce and present to the Board an Annual Accomplishments Report that provides a synopsis of the annual discussions and actions.

In carrying out these duties, Committee members bring to the District their respective expertise and the interests of the communities they represent. In addition, Committees may help the Board produce the link between the District and the public through information sharing to the communities they represent.



ENVIRONMENTAL AND WATER RESOURCES COMMITTEE MEETING

DRAFT MINUTES

**MONDAY, AUGUST 22, 2016
6:00 PM**

(Paragraph numbers coincide with agenda item numbers)

A rescheduled meeting of the Environmental and Water Resources Committee (Committee) Meeting was held on August 22, 2016, in the Headquarters Building Boardroom at the Santa Clara Valley Water District, 5700 Almaden Expressway, San Jose, California.

1. CALL TO ORDER/ROLL CALL

Chairperson Hon. Dean Chu called the meeting to order at 6:02 p.m.

Members in attendance were:

<u>District</u>	<u>Representative</u>
District 1	Loren Lewis Rita Norton
District 2	Patricia Colombe Elizabeth Sarmiento*
District 3	Hon. Dean Chu Rev. Jethroe Moore, II*
District 4	Bob Levy Susan M. Landry Richard Zahner
District 5	Marc Rauser Melissa Rohde*
District 6	Hon. Patrick S. Kwok
District 7	Arthur M. Keller, Ph.D. Tess Byler

Members not in attendance were:

<u>District</u>	<u>Representative</u>
District 1	Bonnie Bamberg
District 5	Nancy Smith
District 6	Kit Gordon
District 7	Stephen A. Jordan

*Committee members arrived as indicated, below.

The Board members in attendance were: Director Linda J. LeZotte and Director Tony Estremera, Board Representatives.

Staff members in attendance were: Wade Blackard, Glenna Brambill, Karna DuQuite, Chris Elias, Garth Hall, Brian Mendenhall, Ngoc Nguyen, Afshin Rouhani, and Sarah Young

*Ms. Melissa Rohde arrived at 6:03 p.m.

2. PUBLIC COMMENT

There was no one present who wished to speak.

3. APPROVAL OF MINUTES

It was moved by Mr. Loren Lewis, seconded by Ms. Susan M. Landry and carried by majority vote, to approve the April 18, 2016, meeting minutes, as presented. There was one nay vote by Dr. Arthur M. Keller.

*Ms. Elizabeth Sarmiento arrived at 6:08 p.m.

4. ACTION ITEMS

4.1 COMPREHENSIVE REVIEW OF SAFE, CLEAN WATER PROGRAM GRANTS AND PARTNERSHIP PROJECTS

Ms. Sarah Young reviewed the materials as outlined in the agenda items.

Mr. Garth Hall and Director Linda J. LeZotte were available to answer questions.

No action was taken.

*Rev. Jethroe Moore, II arrived at 6:18 p.m.

4.2 CONCEPTUAL DEVELOPMENT OF A PILOT MINI-GRANT PROGRAM FOR WILDLIFE HABITAT RESTORATION GRANTS AND PARTNERSHIPS (PROJECT D3) OF THE SAFE, CLEAN WATER PROGRAM.

Ms. Sarah Young reviewed the materials as outlined in the agenda items.

Mr. Chris Elias was available to answer questions.

No action was taken.

4.3 UPDATE ON THE ONE WATER PLAN (FORMERLY KNOWN AS WATER RESOURCES MASTER PLAN)

Mr. Brian Mendenhall reviewed the materials as outlined in the agenda items.

Director Linda J. LeZotte was available to answer questions

No action was taken.

4.4 REVIEW AND COMMENT ON SURFACE WATER CHARGES AND QUALITY, IMPORTED WATER CHARGES, FLOOD PROTECTION ACTIVITIES, AND SECURING IMPORTED WATER SUPPLIES TO BE PAID BY RATE PAYERS AND /OR LAND OWNERS

Mr. Ngoc Nguyen reviewed the materials as outlined in the agenda items.

Mr. Garth Hall was available to answer questions.

No action was taken.

Ms. Susan M. Landry left at 7:30 p.m. and did not return.

Mr. Richard Zahner left at 7:52 p.m. and did not return.

4.5 RECEIVE STATUS UPDATE FROM WORKING GROUPS

Chairperson Hon. Chu reviewed the materials as outlined in the agenda items.

No action was taken.

4.6 Review of Environmental and Water Resources Committee Work Plan, the Outcomes of Board Action of Committee Requests and the Committee's Next Meeting Agenda

Chairperson Hon. Chu and Ms. Glenna Brambill reviewed the materials as outlined in the agenda items.

The Committee took the following action:

It was moved by Ms. Rita Norton, seconded by Ms. Elizabeth Sarmiento and carried unanimously, to approve the Committee's request for them to receive a brief report of the ongoing discussion with the Sierra Club and District on Water Planning. They would like to add it to their next meeting's agenda and place it on their work plan.

5. Clerk Review and Clarification of Committee's Requests to the Board

Ms. Glenna Brambill reported there was one Committee action for the Board's consideration.

The Environmental and Water Resources Committee (EWRC) recommends that the Board approve the Committee's request for them to receive a brief report of the ongoing discussion with the Sierra Club and District on Water Planning. They would like to add it to their next meeting's agenda and place it on their work plan.

6. REPORTS

6.1 Director's Report

Director Tony Estremera reported on the following:

- Interim CEO was named, Ms. Norma Camacho
- Director Nai Hsueh is the new Board Alternate
- Board Action
- Water District News
- Water Supply
- Flood Protection
- Community Outreach

6.2. Manager's Report

Mr. Garth Hall reported on the following:

- Committee Oversight Manager, Liang Lee will be retiring Friday, August 26, 2016
- Recharge of groundwater basins is on track and working well
- Water conservation is at 29% reduction, Retailers and County residents are doing an exceptional job of conserving
- Water Supply taste and odor issues have been rectified

6.3 Committee Member Reports

Chairperson Hon. Chu reported on the following:

- 3 Committee Members are running for office in their respective areas (Dr. Arthur M. Keller, Ms. Nancy Smith and Ms. Susan M. Landry)

7. ADJOURNMENT

Chairperson Hon. Chu adjourned at 8:22 p.m. to the next regular meeting on Monday, October 17, 2016, at 6:00 p.m., in the Santa Clara Valley Water District Headquarters Boardroom.

Submitted by:

Glenna Brambill
Office of the Clerk of the Board

Approved:



Committee: Environmental and Water Resources
Meeting Date: 10/17/16
Agenda Item No.: 4.1
Unclassified Manager: Garth Hall
Email: ghall@valleywater.org

COMMITTEE AGENDA MEMO

SUBJECT: Water Supply Update

RECOMMENDED ACTION:

This is an information item only and no action is required.

SUMMARY:

This information only item summarizes water supply conditions, District drought response, and the District's Water Supply Master Plan Update.

BACKGROUND:

Short-term drought response: Current water supply conditions and District drought response activities are summarized in the following monthly reports: Drought 2016 Monthly Status Report (Attachment 1), Water Tracker (Attachment 2); and Groundwater Condition Report (Attachment 3).

On June 14, 2016, the District Board of Directors adopted a resolution calling for a 20 percent reduction in water use compared to 2013, and a limitation on outdoor watering of ornamental landscapes or lawns with potable water to three days per week through January 31, 2017. Due to improved water supply conditions, this call was a reduction from the 30 percent reduction and two day per week outdoor watering call issued in 2015. The call for 20 percent was based on current water supply conditions, projections of water use and supply in 2016, and is consistent with the District's Water Shortage Contingency Plan.

Long-term water supply reliability: The District is in the process of updating its Water Supply Master Plan. The Water Master Plan presents the District's strategy for providing a reliable and sustainable future water supply for Santa Clara County and ensuring new water supply investments are effective and efficient. On September 27, 2017, the District Board of Directors is scheduled to discuss the level of service goal, objectives of the Water Supply Master Plan, the types of projects and programs to investigate, and stakeholder engagement. The PowerPoint presentation in Attachment 4 provides more information on the Water Supply Master Plan update.

ATTACHMENT(S):

- Attachment 1: Drought 2016 Monthly Status Report
- Attachment 2: Water Tracker
- Attachment 3: Groundwater Condition Report
- Attachment 4: PowerPoint Presentation

**AUGUST
2016**



Drought 2016 Monthly Status Report

**Santa Clara Valley
Water District**



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Water Tracker

U.S. Drought Monitor

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- A. District Water Use Efficiency Strategies
- B. San Francisco Public Utilities Commission In-county Water Supplies
- C. Countywide Water Use and Savings
- D. Recycled Water Production

2. Retailers Water Use and Savings

- A. Water Savings by Retailer (Table)
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- C. Gilroy, City of
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- E. Milpitas, City of
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- I. Purissima Hills Water Company
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4. District Drought Response Strategies

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- B. Water use reduction
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5. Data Collection Methodology

- A. Water Use Data Disclaimer
- B. Treated Water Data
- C. Groundwater Data
- D. SFPUC Water Data
- E. Surface Water Data
- F. Recycled Water Use

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EXECUTIVE SUMMARY

The purpose of this report is to provide a monthly water supply and water use reduction outlook in response to the ongoing drought. The data and analysis provided includes local and imported water conditions, in addition to detailed monthly water use and reductions as reported by the county's major water retailers.

Background

On January 28, 2014, the Santa Clara Valley Water District's (district) Board of Directors (board) received the initial 2014 water supply outlook and set a preliminary 2014 water use reduction target equal to 10 percent of 2013 countywide water use. On February 25, 2014, the board approved a resolution setting a countywide water use reduction target equal to 20 percent of 2013 water use through December 31, 2014, and recommended that retail water agencies, local municipalities and the County of Santa Clara (County) implement mandatory measures as needed to achieve the 20 percent water use reduction target. The call for 20 percent reductions was extended on November 25, 2014, to be in place through June 30, 2015. These actions were based on the district's Water Shortage Contingency Plan and estimated 2014 water supply conditions that showed groundwater reserves would reach the Stage 3 ("Severe") level by the end of the calendar year if water use reduction measures were not implemented.

In early 2015, the statewide drought condition was still in the severe to exceptional stage. Furthermore, local surface water and groundwater supplies were well below average and imported water allocations for 2015 were very low (25 percent or less). In consideration of the continued severity of the drought and worsening water supply projections, increased water use reductions beyond the previous call for 20 percent were determined to be necessary to preserve groundwater storage and minimize the risk of land subsidence resuming. Therefore, on March 24, 2015, the board called for 30 percent water use reductions, and recommended that retail water agencies, municipalities and the County implement mandatory measures as needed to accomplish that target, including a two day a week outdoor irrigation schedule. On November 24, 2015, the board extended the call for 30 percent savings through June 30, 2016. On June 14, 2016, the board approved a resolution to revise the call for water use reductions to 20 percent of the 2013 use, and to increase the allowable days for outdoor irrigation from two to three days a week. The resolution is in effect to January 31, 2017, to coincide with the recently updated state emergency regulations.

The district's Drought Response Strategy developed in February 2014 continues to support board's call for water use reductions and has been an effective approach to respond to the drought. These actions are still the basis of our drought response. Certain strategies may change or increase as conditions change. The drought strategies are implemented by a cross-functional team from across the organization (convened when the Drought Response Strategy was formulated). The district's comprehensive drought response is being implemented through fifteen strategies grouped into four general categories: (A) water supply and operations; (B) water use reduction; (C) drought response

opportunities; and (D) administrative and financial management. The specific strategies are detailed in Section 4.

Current Status

Severe to exceptional drought conditions continue throughout California (~59 percent), which is unchanged from the July 2016 report. The U.S. Drought Monitor for California August 16, 2016, reports that Santa Clara County drought severity ranges from 'D0 –Abnormally Dry' to 'D3-Extreme Drought', depending on the location within the county. There was also no change in drought severity for Santa Clara County. Local reservoir storage is at 85 percent of the 20-year average for this time of year and 81 percent of restricted storage capacity, and storage in key northern California reservoirs is near to above normal for this time of year. Supplies are less constrained as compared to the last few years, and the District is taking advantage of the improved water supply conditions by increasing recharge operations compared to last year, in collaboration with regulatory agencies.

The district's current 2016 State Water Project (SWP) allocation is now at 60 percent of contract quantity. Central Valley Project allocations for agricultural water service contractors South-of-Delta are 5 percent of their contract quantity; and allocations for M&I water service contractors South-of-Delta are 55 percent.

The district maintained a reduced recharge program throughout calendar year 2015 to replenish the groundwater aquifers using available, limited quantities of local surface and imported water. The district is increasing recharge operations in 2016, with frequent collaboration with regulatory agencies. Year to date managed groundwater recharge in the Santa Clara Plain was about 234 percent of the five-year average, and there has been some improvement in groundwater storage compared to last year. However, end of 2016 storage is predicted to fall within Stage 2 (Alert) of the Water Shortage Contingency Plan. As a result, the district board continues to call for water use reductions (20 percent as of July 1, 2016). Staff continues to closely track groundwater conditions through monthly water level measurements at 225 wells and regular subsidence monitoring.

Since the drought response was initiated in 2014, the district has worked with water retailers, municipalities and the County to increase water conservation efforts and public outreach, and to implement other actions to reduce water use. Through these efforts, 2015 water use data indicated that cumulative countywide retailer savings of 27 percent were realized compared to 2013. In comparison, preliminary 2016 data through July indicates that cumulative savings of 28 percent has been achieved, and 26 percent was achieved for the month of July when compared to July 2013.

As a result of last year's call for 30 percent savings, the retailers increased their outreach and education efforts. At that time, most retailers were calling for at least 30 percent reductions, and responded to the district's increased call for savings in various ways. In addition, water retailers implemented additional actions in response to the governor's April 1, 2015, Executive Order (Order) and the State Water Resources Control Board's (State Board) expanded drought-related emergency regulations in effect as of May 18, 2015 (extended in February 2016 and updated May 18, 2016). For instance, the

investor owned retailers implemented water allocation programs. As of August 2016, following the district board's call for 20 percent reductions and the update to the State Board's Emergency Regulations, most retailers are now calling for 20 percent reductions, and most have continued with some level of water use restrictions (see Table 9 for details). Other actions from the April 1, 2015, Order are now in effect, including California Energy Commission standards that improve the efficiency of water appliances available for sale and installation in new and existing buildings. As a result, showerhead flow rate requirements have been reduced to 2.0 gallons per minute and will be reduced again in July 2018, to 1.8 gallons, and flow rates for faucets have been reduced to 1.2 gallons per minute (as of July 2016).

In response to outcomes from two summits held by the district, one with the retailers and one with elected officials, the district and retailers continue to effectuate the common theme between the two summits that: messaging and policy development needs to be consistent and coordinated. The summits were held in 2015 to facilitate increased water use saving efforts and increased coordination to meet the 30 percent reduction target at that time. Even though the call has been reduced, coordination continues to be a focus for the water district and retailers in 2016 to help transition the response by the community to the change in water use reductions and restrictions called for by the board on June 14, 2016.

Report Format

This report begins with our current drought and water supply status as shown in the monthly Water Tracker report and Drought Monitor report. The remainder of the report focuses on water use and savings data in Santa Clara County. Detailed 2016 water use and savings reports for the county are presented, as is a summary of 2013 data, which is provided for comparison as it is the base year set for water savings calculations. Data for 2014 and 2015 are also provided.

Disclaimer

The data presented within this report is preliminary and subject to change. The data is presented prior to complete QA/QC and validation in an effort to quickly identify trends in water supply conditions and water use within the county. Due to the critical nature of the ongoing drought, it is important that the district and the community have an understanding of conditions and effectiveness of water use reduction efforts. Please see the Data Collection Methodology section at the end of this report for further description and disclaimers regarding the water use data reported herein. The water use data presented in the monthly reports are based on water retailer water use, which comprises just above 80 percent of countywide water use. The remaining water use consists of small or independent groundwater well users, district untreated surface water customers and recycled water.

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A monthly assessment of trends in water supply and use for Santa Clara County, California

Outlook as of August 1, 2016

Santa Clara County residents and businesses reduced water use by 26% in June 2016 compared to June 2013. This brings the cumulative 2016 water savings through June to 29% compared to the same period of 2013. Realizing parts of the state were better off than others in terms of water supply, the State Water Resources Control Board adopted an updated Emergency Regulation that allowed water retailers throughout the state to determine their conservation standard based on local conditions.

At its June 14 meeting, the District’s Board of Directors lowered its water use reduction target for the period extending through January 2017, but emphasized that residents should continue their efforts to conserve in this ongoing drought. The Board also called for local water providers to continue to institute mandatory measures, as needed, to reach the 20 percent target, and called for restrictions on watering schedules to a maximum of three times a week, up from the two day a week schedule most areas of the county have had in place since the spring of 2015.

Due to low storage in San Luis Reservoir and algae problems in our imported sources, we have had to limit the amount of imported water entering our system. To make up the difference, we are utilizing storage from Coyote, Anderson, and Lexington Reservoirs and have temporarily decreased recharge. As a result of the reduced recharge levels, water levels in some of our percolation ponds have fallen noticeably.

Weather



Rainfall in San Jose

- Month of July = 0 inches
- The average daily high temperature for July was 81.6 degrees Fahrenheit. Temperatures were slightly below normal for the month

Local Reservoirs



- Total August 1 storage = 85,471 acre-feet
 - » 85% of 20-year average for that date
 - » 51% of total capacity
 - » 70% of restricted capacity storage (169,009 acre-feet total storage capacity limited by seismic restrictions to 122,924 acre-feet)
- Approximately 565 acre-feet of Imported Water delivered into local reservoirs during July 2016
- Total releases to streams (local and imported water) during July was 8,289 acre-feet

Groundwater



- Groundwater (GW) Storage: End of 2016 storage is predicted to fall within Stage 2 (Alert) of the Water Shortage Contingency Plan.

	Santa Clara Subbasin		Llagas Subbasin
	Santa Clara Plain	Coyote Valley	
July managed recharge estimate (AF)	9,700	900	2,800
January to July managed recharge estimate (AF)	54,600	6,700	13,000
January to July managed recharge, % of 5-year average	234%	115%	120%
June pumping estimate (AF)	5,400	800	3,000
January to June pumping estimate (AF)	26,800	4,500	15,800
January to June pumping, % of 5-year average	69%	92%	92%
GW index well level compared to last July	Increase	Increase	Increase

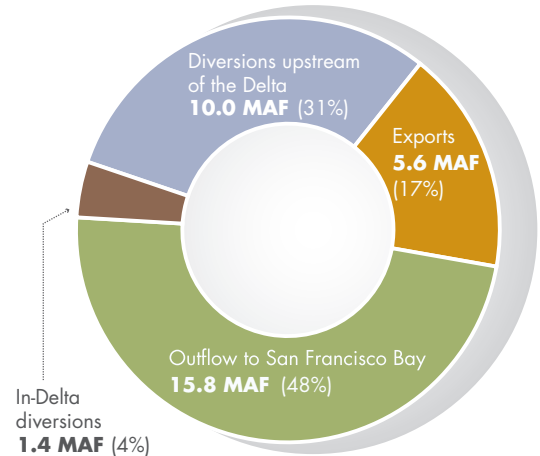
AF = acre-feet

Imported Water



- 2016 State Water Project (SWP) and Central Valley Project (CVP) allocations:
 - » 2016 SWP allocation: 60% = 60,000 acre-feet
 - » 2016 CVP allocations South-of-Delta: Municipal and Industrial water service contractors: 55% of historic use = 71,500 acre-feet, Agriculture water service contractors: 5% = 1,655 acre-feet
- Reservoir storage information, as of July 28, 2016:
 - » Shasta Reservoir at 78% of capacity (110% of average for this date)
 - » Oroville Reservoir at 66% of capacity (90% of average for this date)
 - » San Luis Reservoir at 10% of capacity (20% of average for this date)
- District's Semitropic groundwater bank reserves: An estimated 190,339 acre-feet as of July 1, 2016.
- Estimated Hetch Hetchy deliveries to Santa Clara County:
 - » Month of July = 4,446 acre-feet
 - » Year-to-date = 23,988 acre-feet
 - » Five-year average is 48,700 acre-feet
- Board Governance Policy No. EL-5.3.3 includes keeping the Board informed of imported water management activities on an ongoing basis. In FY16, two imported water management agreements were executed as of August 1

**Delta Watershed Diversions and Outflow
Typical Annual Balance
Average Years (32.8 MAF)**



Treated Water



- Below average demands of 11,362 acre-feet delivered in July
- This total is 89% of the five-year average for the month of July
- Year-to-date = 49,854 acre-feet or 77% of the five-year average

Conserved Water

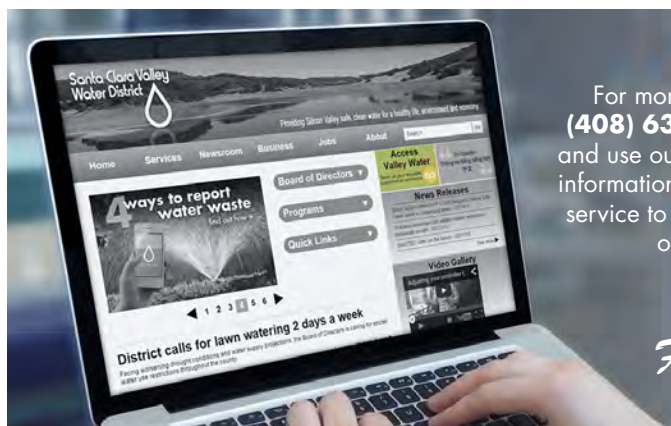


- Saved 63,000 acre-feet in FY15 from long-term program (baseline year is 1992)
- Long-term program goal is to save nearly 68,000 acre-feet in FY16
- The Board has called for a 20% reduction and a limit of three days per week for irrigation of ornamental landscape with potable water
- Achieved a 29% reduction in water use through the first six months of 2016, compared to 2013

Recycled Water



- Estimated July 2016 production = 2,400 acre-feet
- Estimated year-to-date through July = 10,132 acre-feet or 94% of the five-year average
- Silicon Valley Advanced Water Purification Center produced an estimated 3.7 billion gallons (11,300 acre-feet) of purified recycled water since March 25, 2014. The purified water is blended with existing tertiary recycled water for South Bay Water Recycling Program's customers



CONTACT US

For more information, contact **Customer relations** at **(408) 630-2880**, or visit our website at valleywater.org and use our **Access Valley Water** customer request and information system. With three easy steps, you can use this service to find out the latest information on district projects or to submit questions, complaints or compliments directly to a district staff person.



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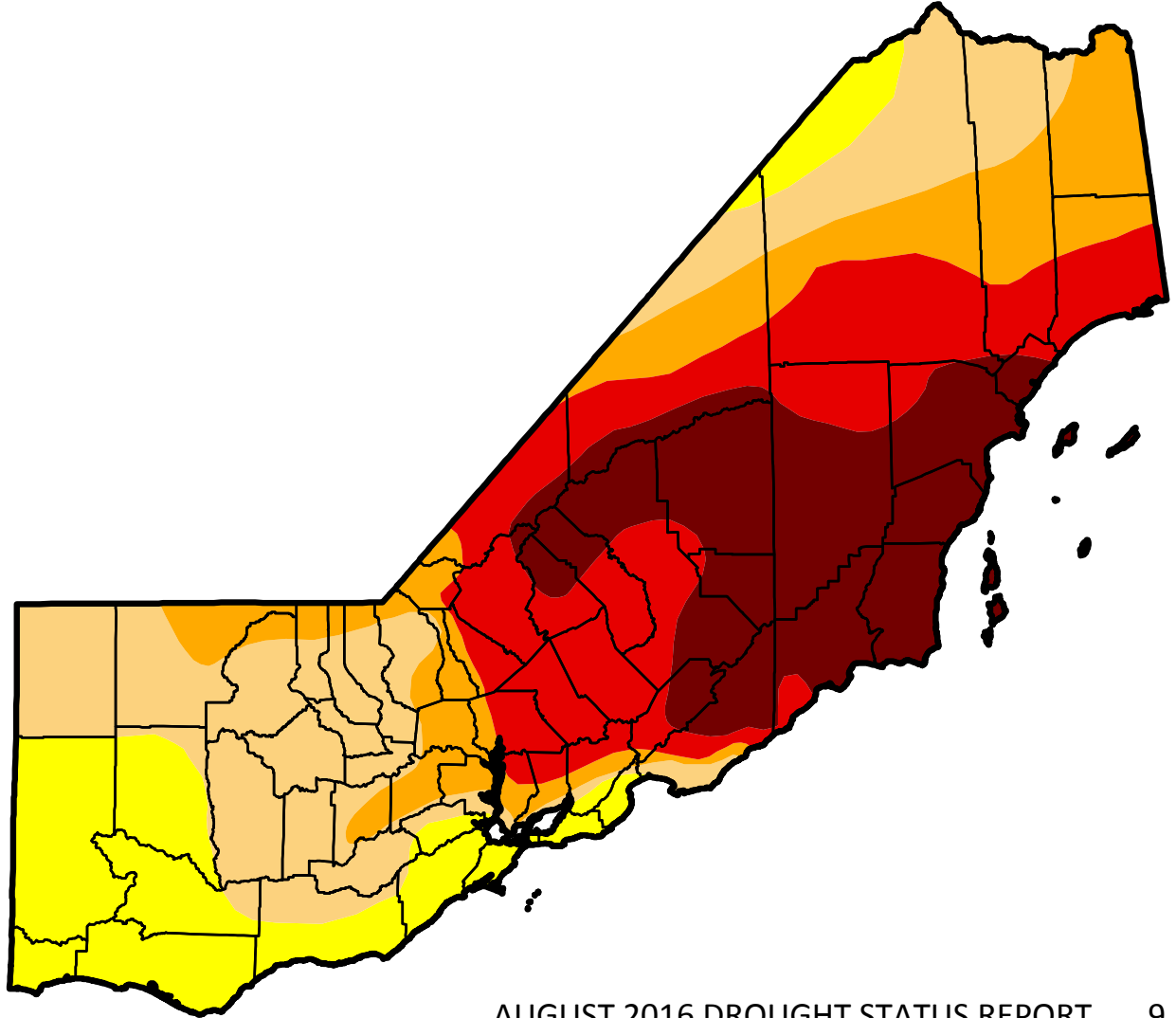
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U.S. Drought Monitor California

August 16, 2016
(Released Thursday, Aug. 18, 2016)
Valid 8 a.m. EDT



Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	0.00	100.00	83.59	59.02	42.80	21.04
Last Week 8/9/2016	0.00	100.00	83.59	59.02	42.80	21.04
3 Months Ago 5/17/2016	5.50	94.50	86.39	63.57	42.99	21.04
Start of Calendar Year 12/29/2015	0.00	100.00	97.33	87.55	69.07	44.84
Start of Water Year 9/29/2015	0.14	99.86	97.33	92.36	71.08	46.00
One Year Ago 8/18/2015	0.14	99.86	97.35	92.36	71.08	46.00

Intensity:

- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

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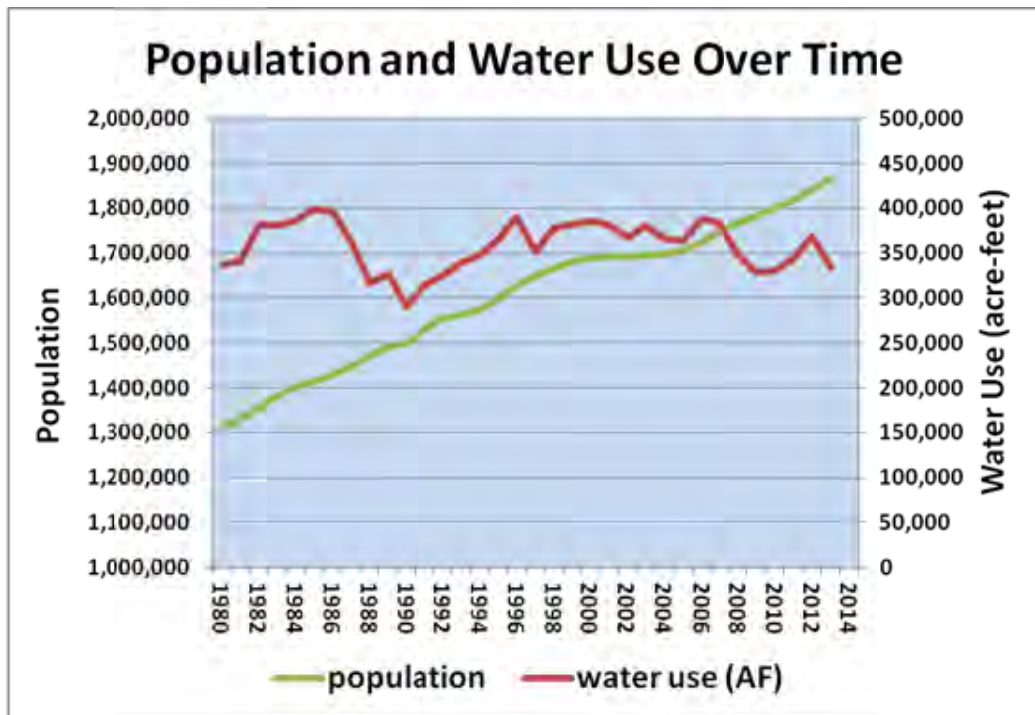


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Section 1. Water Use Reductions

The district and its water retailers have a long history of implementing water conservation and water use efficiency in Santa Clara County. Because of the investments the district and its water retailers have made in water conservation since 1992, water use in the county has remained relatively flat despite a 25 percent increase in population over the same time period.

FIGURE 1 POPULATION AND WATER USE



A. District Water Use Efficiency Strategies

This section provides the context of the district’s existing long-term conservation programs to the current efforts in response to the current drought.

Long-term Water Conservation

The district's 2012 Water Supply and Infrastructure Master Plan (Water Master Plan) acknowledges that further investments are needed to ensure adequate water supply reserves in drought years. The "Ensure Sustainability" strategy adopted by the board calls for significantly increasing the current levels of conservation from 63,000 acre-feet per year (AFY) to 98,800 AFY over the next 15 years, as well as other investments that will reduce the county's reliance on the Sacramento-San Joaquin Delta. Future growth in county water demands will be met through water conservation and recycled water. While the long-term Water Master Plan is being implemented, short-term gaps between annual supply and demand can occur as seen in the current severe drought. These gaps are addressed through the board-adopted Water Shortage Contingency Plan¹.

¹ Santa Clara Valley Water District 2010 Urban Water Management Plan, <http://www.valleywater.org/Services/WaterSupplyPlanning.aspx>

The district and its major water retailers have a cooperative relationship in the implementation of a variety of water conservation programs in an effort to permanently reduce water use in Santa Clara County and are an important element in meeting long-term water reliability. Water conservation programs implemented since 1992 have had a large influence in continued demand reduction. This can be seen in Figure 1 with the relative stability of demands since the mid to late 1980s, even though population has increased significantly during the same period. Using the year 1992 as a baseline, the district saved approximately 63,000 AFY in year 2015, which is a little more than half of the district's long-term goal of 98,800 AFY by 2030.

Short-term Water Use Reductions

In addition to the district's long-term conservation programs, there are times, such as the current drought, when we need additional savings. Short-term reduction generally refers to these behavioral changes that reduce water use over and above long-term conservation programs. When the district's board calls for short-term water use reductions, the cities and water retailers consider the implementation of their water shortage contingency plan actions identified in their Urban Water Management Plans in order to achieve the necessary shortage response (board calls for short term reductions included: 20 percent call in February 2014 and extended in November 2014; increased to 30 percent in March 2015 and extended again in November 2015; and reduced to 20 percent and extended to January 31, 2017 in June 2016). The previous call for 30 percent savings triggered certain actions by retailers or municipalities. Those actions are being adjusted as necessary in response to the recent board call for 20 percent. Actions to achieve the desired shortage response may be different for each city/water retailer depending on service area composition (commercial, industrial, residential) and source of water supplies. However, some actions are common to several of the cities/water retailers, providing for more consistent implementation and messaging. Another consistent approach was the coordinated two day/week watering schedule. As a result of the board approved resolution June 14, 2016, the watering schedule has been revised, and the district and those retailers continuing with a watering restriction will coordinate communication of this change to the community. The revised restriction on outdoor watering of ornamental landscapes or lawns with potable water is now for a maximum of three days a week (odd numbered and no addresses may water on Mondays, Thursdays and Saturdays; even numbered addresses may water on Tuesdays, Fridays and Sundays). The benefit of consistent approaches such as these include: reduced confusion among residents, increased ease of implementation, and easier compliance and enforcement if needed. Reducing water consumption during water shortages is generally achieved through behavioral changes.

In response to the unprecedented water shortage situation in the last few years, the district increased and expanded its short-term measures and strengthened efforts to foster its partnerships with its water retailers to promote water conservation. To that end, the district works closely with the water retailers on program development, as well as water conservation outreach and education. Please see our website for more information on our long standing programs and new efforts and rebates available in response to the current drought (www.watersavings.org).

On March 24, 2015, district staff presented an outline of increased actions and coordination efforts needed to meet the 30 percent target (Figure 2). Staff updates the Board on these efforts monthly.

FIGURE 2



State Water Resources Control Board Emergency Regulations

The State Board initial emergency regulation to increase conservation practices for all Californians became effective July 28, 2014. The regulations target outdoor urban water use and establish the minimum level of activity that residents, businesses and certain water suppliers must meet as the drought deepens. At its March 17, 2015, meeting, the State Board extended and expanded the regulations. Among the new rules were many restrictions on water use by commercial, industrial and institutional water users and other restrictions on water waste. On April 1, 2015, the governor directed the State Board to implement mandatory water reductions in cities and towns across California to reduce water usage by 25 percent (extended through October 2016). The State Board then updated the emergency regulations again on May 5, 2015 (effective May 18, 2015, and extended in February 2016), to address the governor’s April 1, 2015, Executive Order (Order). For instance, the investor owned retailers implemented water allocation programs. In addition, the Order also ordered the California Energy Commission to establish standards that improve the efficiency of water appliances available for sale and installation in new and existing buildings. As a result, showerhead flow rate requirements have been reduced to 2.0 gallons per minute and will be reduced again in July 2018, to 1.8 gallons, and flow rates for faucets have been reduced to 1.2 gallons per minute (as of July 2016).

In accordance with the governor’s May 9, 2016, Executive Order, the SWRCB extended and amended the Emergency Regulations on May 18, 2016, to include locally developed water use reduction standards, and requires water retailers to self-certify the availability of water supplies assuming three additional dry years and the level of water use reductions necessary to assure adequate supply over that time. The amendment also calls for the wholesale suppliers such as the district to provide retailers with the supplies they anticipate being able to deliver in each of the three years. The district has worked closely with local water retailers to meet the requirements of the amended regulations, posted at <http://www.valleywater.org/SWRCBposting/>. On June 14, 2016, the board approved a resolution to revise the call for water use reductions to 20 percent of the 2013 use, and to increase the allowable days for outdoor irrigation from two to three days a week. The resolution is in effect to January 31, 2017, to coincide with the recently updated state emergency regulations.

To support the regulations and the district board’s resolutions, we have been responding through other efforts as part of the district’s aggressive drought response program that includes 15 strategies (see Section 4). These extra efforts included increasing efforts in communicating with and supporting our local water retailers, cities, and the County, expanding outreach and marketing, establishing a centralized system to report water waste, and hiring additional water waste inspectors to follow-up on reports of water waste. The following is a summary of the current 2016 call level to our drought hotline (408-630-2000), incoming emails to drought@valleywater.org, and the total number of water waste reports entered into Access Valley Water (through the web, the smart phone app, or entered by staff).

Monthly Activity 2016	Incoming calls to Hotline	Incoming emails to drought@valleywater.org	New “Access Valley Water” Water Waste Cases
January	31	39	274
February	31	26	337
March	34	32	266
April	16	14	171
May	59	33	268
June	61	55	363
July	46	71	284
2016 Totals	280	270	1963

Recycled Water/Water Re-use

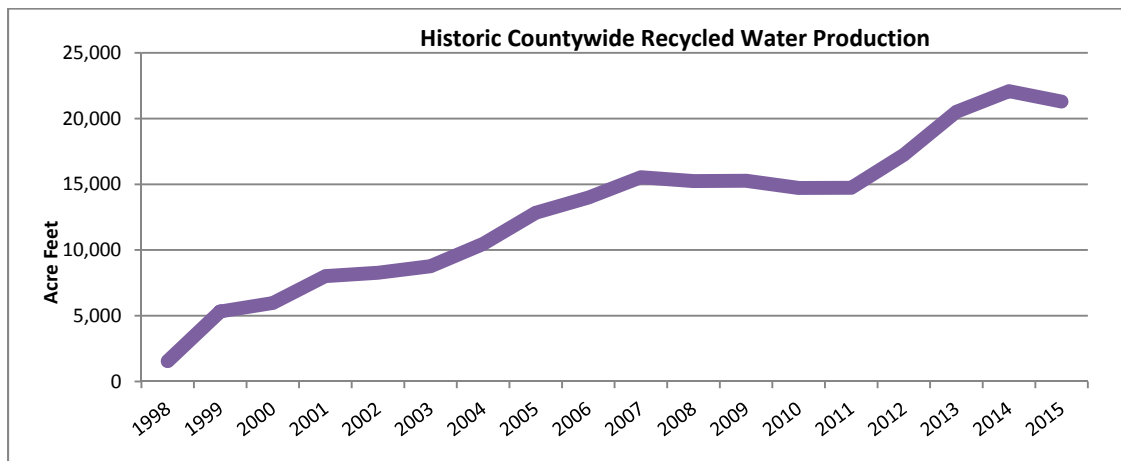
In addition to the district’s water conservation programs, the district has partnered with cities and water retailers in the county to develop recycled water supplies to reduce demand on potable supplies. Recycled water helps in times of drought as it is an all-weather reliable source of water. Approximately 10 percent of the county’s estimated total water use consisted of recycled water in 2015, limited primarily to landscaping irrigation, agriculture irrigation, cooling towers, and industrial processes. This usage is critical now and into the future to meet water supply reliability needs. For instance, approximately 21,293 AF of recycled water was estimated to have been used in 2015 countywide, thereby preserving an equal volume of drinking water supplies. In July 2016, 2,401 AF was produced.

The district long term plans are to increase recycled water used in this county to at least 10 percent of total use (approximately 40,000 AF) by year 2025, and its longer-term goal is 50,000 AF by year 2035.

In the near term, the continued and extreme drought conditions has prompted a review of the timing for developing recycled water and purified water projects. Staff continue to regularly inform and engage the board of directors on the Expedited Purified Water Expansion Program, which includes four purified water projects. The program also includes evaluating an extension of the Sunnyvale Wolfe Road Project (delivering recycled water to the new Apple campus) to deliver purified water for groundwater recharge. Expedited implementation of the five purified water projects could provide a capability for up to 45,000 acre-feet per year.

Recycled water use has continued to increase in recent years. Many cities cite their use of recycled water as a significant help in reducing demand for potable water. Recycled water use data at the retailer level is not available on a monthly basis for all retailers; however, the most current production data at the four waste water treatment plants is being tracked and reported in this report.

FIGURE 3 RECYCLED WATER USE



B. San Francisco Public Utilities Commission (SFPUC) Supplies

Eight retail agencies in Santa Clara County contract with the SFPUC to receive water imported from the Tuolumne River watershed as well as from watersheds around the Bay Area. This imported water is conveyed through the regional water system owned and operated by the SFPUC. The district does not control or administer SFPUC supplies delivered to the county; however, this supply reduces the demands on district-supplied water. The 2015 SFPUC water use in Santa Clara County was approximately 42,000 acre-feet, or almost 19 percent of all water retailer use.

On January 31, 2014, the SFPUC officially asked all customers of the Regional Water System to voluntarily curtail water consumption. The goal is to reduce system-wide usage by 10 percent. The SFPUC announced it will be enforcing the July 28, 2014, State Board’s emergency regulations through

education, notices, and warning to customers. Repeated water waste after receiving notice and warnings from the SFPUC could result in a fine. On August 12, 2014, the SFPUC passed new emergency outdoor irrigation restrictions for all of its retail customers to reduce potable water use by 10 percent for outdoor irrigation of ornamental landscape and turf. Many of the Santa Clara County water retailers that rely on SFPUC for some, or all, of their supplies, have increased their call in response to either the district's call, the governor's Executive Order and/or the State Board's Emergency Regulations. On April 15, 2015, the SFPUC informed its customers that it would not be necessary to request further action from its customers system-wide in response to the governor's April 1, 2015, Executive Order directing the State Board to develop mandatory conservation across the state to achieve a 25 percent reduction below 2013 levels in water use. On June 28, 2016, the SFPUC Commission continued their call for voluntary 10% water use reductions and continued many of the previously called for water use restrictions.

C. Countywide Water Use Savings

Water retailers' water use savings total from February to December 2014 was just above 13 percent for the year. After statewide and local efforts were increased, water savings in 2015 (January through December 2015, compared to the same period in 2013) totaled an estimated 27 percent. Preliminary cumulative savings for 2016 are 28 percent. July 2016 water use savings compared to June 2013 are 26 percent. The significant and sustained increases in water savings in 2015, and the early 2016 savings, indicate that the messaging and tools implemented from the governor's office to the district to the retailers had an effect on water use behavior. With the June 14, 2016, call for 20 percent reductions, water use reduction trends are expected to decrease modestly.

The following pages contain more detailed water use and savings information for combined major retail water providers. Section 2 contains retail water provider water use and savings data and analysis reports. Please see Section 5, Data Collection Methodologies for explanation and disclaimers.

Water Savings Target and Calculations

On February 25, 2014, the board approved a resolution (extended on November 25, 2014, to be in place through June 30, 2015) setting a countywide water use reduction target equal to 20 percent of 2013 water use. On March 24, 2015, the board adopted a new resolution calling for 30 percent water use reductions, and recommending that retail water agencies, municipalities and the County implement mandatory measures as needed to accomplish that target, including a two day a week outdoor irrigation schedule. This action was based on the district's Water Shortage Contingency Plan and estimated 2015 water supply conditions that showed groundwater reserves could reach the Stage 4 ("Critical") level by the end of the calendar year if water use reduction measures were not implemented. On November 24, 2015, the call for 30 percent was extended to June 30, 2016. On June 14, 2016, the board approved a resolution to revise the call for water use reductions to 20 percent of the 2013 use, and to increase the allowable days for outdoor irrigation from two to three days a week. This action was based on estimated 2016 water supply conditions that showed groundwater reserves would fall in Stage 2

("Alert") level by the end of the calendar year. The resolution is in effect to January 31, 2017, to coincide with the recently updated state emergency regulations.

This monthly water use and savings report only contains data and progress towards the savings target for large water retailers, and does not provide a complete accounting of countywide water use.

Recycled water use is not subject to the water savings target because it is used in lieu of other potable water supplies. Recycled water is used primarily for irrigation, industry and agriculture. Using recycled water helps conserve drinking water supplies, provides a dependable, drought-proof, locally-controlled water supply, reduces reliance on imported water and helps preserve our saltwater and tidal habitat by reducing freshwater discharge to the bay. A small, but important and growing source of water is recycled water.

TABLE 1: CURRENT YEAR'S (2013 and 2016) RETAIL WATER USE AF AND SAVINGS

2013 (Base Year) and 2016 (Reporting Year) in Acre-feet

<u>2013</u>	<u>North County Ground water</u>	<u>South County Ground water</u>	<u>Treated Water</u>	<u>SFPUC</u>	<u>SJWC Surface</u>	<u>2013 Monthly Use</u>	<u>2013 Cumulative Use</u>
Jan	3,063	1,192	5,879	3,477	1,807	15,418	15,418
Feb	3,207	1,209	6,759	3,619	1,385	16,179	31,598
Mar	5,728	1,586	8,352	3,416	595	19,676	51,274
Apr	6,556	1,906	10,876	4,591	422	24,352	75,626
May	8,415	2,314	13,650	5,894	299	30,573	106,198
Jun	8,937	2,312	13,769	5,263	516	30,797	136,995
Jul*	10,579	2,614	13,646	5,803	616	33,258	170,254
Aug	9,949	2,400	13,640	6,144	584	32,716	202,970
Sep	7,957	2,305	12,845	4,970	531	28,608	231,578
Oct	8,074	2,154	11,612	4,685	502	27,027	258,604
Nov	6,826	1,692	8,749	3,671	326	21,265	279,869
Dec	6,852	1,398	7,182	3,108	203	18,744	298,613
Jan to Current Totals*	46,486	13,132	72,932	32,064	5,640	170,254	
Jan to Dec Totals	86,144	23,080	126,961	54,642	7,785	298,613	

<u>2016</u>	<u>North County Ground water</u>	<u>South County Ground water</u>	<u>Treated Water</u>	<u>SFPUC</u>	<u>SJWC Surface</u>	<u>2016 Monthly Use</u>	<u>2016 Cumulative Use</u>	<i>Cumulative District Source Savings</i>	<i>Cumulative NonDistrict Source Savings</i>	All Sources Cumulative %Savings from 2013 <+> savings	Statewide Cumulative Savings (since Jan 2016)
Jan	3,894	1,085	4,789	2,458	489	12,715	12,715	4%	44%	18%	17%
Feb	3,238	1,041	5,037	2,581	951	12,848	25,563	10%	37%	19%	15%
Mar	3,562	1,149	4,950	3,053	1,282	13,996	39,559	22%	24%	23%	19%
Apr	4,367	1,315	5,050	3,355	1,857	15,944	55,503	30%	17%	27%	21%
May	3,864	1,622	7,855	4,396	1,919	19,654	75,157	35%	12%	29%	22%
Jun	5,291	1,849	10,264	4,472	1,005	22,882	98,039	34%	11%	28%	22%
Jul*	7,474	2,060	10,296	4,512	0	24,341	122,381	32%	14%	28%	37%
Aug	-	-	-	-	-	-	-				
Sep	-	-	-	-	-	-	-				
Oct	-	-	-	-	-	-	-				
Nov	-	-	-	-	-	-	-				
Dec	-	-	-	-	-	-	-				
*Jan to Current	31,690	10,120	48,241	24,827	7,504	122,381					
<i>%Savings by Source of Supply</i>	32%	23%	34%	23%	-33%	28%					

Current monthly water use data is preliminary and subject to change.

These water use data sets do not include recycled water or surface water sales by the District

Percent savings are shown in positive values where savings have been made and negative percent values where water use is higher than the base year period (2013)

* data does not include Stanford data - Not available at time of printing

TABLE 2: LAST YEAR'S RETAIL WATER USE AF AND SAVINGS (2015 Compared to 2013)

2013 (Base Year) and 2015 (Reporting Year) in Acre-feet

<u>2013</u>	<u>North County Ground water</u>	<u>South County Ground water</u>	<u>Treated Water</u>	<u>SFPUC</u>	<u>SJWC Surface</u>	<u>2013 Monthly Total</u>	<u>2013 Cumulative Use</u>
Jan	3,063	1,192	5,879	3,477	1,807	15,418	15,418
Feb	3,207	1,209	6,759	3,619	1,385	16,179	31,598
Mar	5,728	1,586	8,352	3,592	595	19,852	51,450
Apr	6,556	1,906	10,876	4,591	422	24,352	75,802
May	8,415	2,314	13,650	5,894	299	30,573	106,374
Jun	8,937	2,312	13,769	5,263	516	30,797	137,171
Jul	10,579	2,614	13,646	5,803	616	33,258	170,430
Aug	9,949	2,400	13,640	6,144	584	32,716	203,146
Sep	7,957	2,305	12,845	4,970	531	28,608	231,754
Oct	8,074	2,154	11,612	4,685	502	27,027	258,780
Nov	6,826	1,692	8,749	3,671	326	21,265	280,045
Dec	6,852	1,398	7,182	3,108	203	18,744	298,789
Jan to Current Totals*	86,144	23,080	126,961	54,818	7,785	298,789	
Jan to Dec Totals	86,144	23,080	126,961	54,818	7,785	298,789	

<u>2015</u>	<u>North County Ground water</u>	<u>South County Ground water</u>	<u>Treated Water</u>	<u>SFPUC</u>	<u>SJWC Surface</u>	<u>2015 Monthly Use</u>	<u>2015 Cumulative Use</u>	<i>Cumulative District Source Savings</i>	<i>Cumulative NonDistrict Source Savings</i>	<u>All Sources Cumulative %Savings from 2013 <+> savings</u>	<u>Statewide Cumulative Savings (since Jan 2015)</u>
Jan	5,656	1,144	5,616	2,908	339	15,663	15,663	-23%	39%	-2%	7%
Feb	5,172	1,126	4,307	3,085	1,020	14,711	30,374	-8%	29%	4%	5%
Mar	5,661	1,367	6,468	3,558	1,473	18,527	48,901	1%	14%	5%	4%
Apr	5,831	1,402	6,937	3,570	749	18,489	67,390	10%	14%	11%	7%
May	4,195	1,627	9,503	3,682	485	19,491	86,881	18%	19%	18%	13%
Jun	3,881	1,628	10,290	4,005	484	20,288	107,169	23%	19%	22%	16%
Jul	3,966	1,705	11,278	4,196	253	21,398	128,567	25%	21%	25%	19%
Aug	4,385	1,707	11,109	3,945	0.3	21,146	149,713	27%	24%	26%	20%
Sep	5,718	1,641	9,295	3,960	0.3	20,615	170,328	27%	25%	27%	22%
Oct	5,803	1,535	8,693	3,665	0.3	19,696	190,025	27%	25%	27%	22%
Nov	4,182	1,101	6,406	2,476	0.3	14,165	204,190	27%	26%	27%	22%
Dec	4,812	1,021	4,875	2,974	0	13,683	217,873	28%	25%	27%	21%
Jan to Dec Totals	59,261	17,005	94,778	42,025	4,804	217,873					
<i>%Savings by Source of Supply</i>	31%	26%	25%	23%	38%	27%					

Current monthly water use data is preliminary and subject to change.

These water use data sets do not include recycled water or surface water sales by the District

Percent savings are shown in positive values where savings have been made and negative percent values where water use is higher than the base year period (2013)

2013 data revised March 2016 due to Purissima correction (meter read adjustment)

Values may not add up due to rounding

TABLE 3: PAST YEAR'S RETAIL WATER USE AF AND SAVINGS (2014 Compared to 2013)

For the 2014 Water Use Savings Analysis, January was not incorporated. 2014 savings compared to 2013.

<u>2013</u>	<u>North County Ground- water</u>	<u>South County Ground- water</u>	<u>Treated Water</u>	<u>SFPUC</u>	<u>SJWC Surface</u>	<u>2013 Monthly Total</u>	<u>2013 Cumulative Use Feb to Dec</u>
<i>January water use values are NOT used in water savings calculations or cumulative use values.</i>							
Jan	3,062.9	1,191.7	5,879.1	3,477.5	1,807.1	15,418.3	15,418
Feb	3,207.4	1,208.5	6,759.1	3,619.5	1,384.8	16,179.3	16,179
Mar	5,727.9	1,585.7	8,351.9	3,591.6	594.9	19,851.9	36,031
Apr	6,556.1	1,906.2	10,876.4	4,591.3	422.2	24,352.2	60,383
May	8,415.4	2,314.3	13,650.4	5,893.9	298.6	30,572.7	90,956
Jun	8,937.2	2,311.7	13,769.1	5,262.6	516.2	30,796.8	121,753
Jul	10,579.1	2,613.8	13,645.9	5,803.2	616.3	33,258.3	155,011
Aug	9,948.6	2,399.5	13,640.2	6,143.7	584.1	32,716.1	187,727
Sep	7,957.1	2,305.2	12,844.7	4,970.5	530.6	28,608.1	216,335
Oct	8,074.3	2,153.7	11,612.2	4,684.9	501.5	27,026.6	243,362
Nov	6,826.2	1,692.3	8,749.4	3,671.2	326.0	21,265.1	264,627
Dec	6,852.4	1,397.7	7,182.5	3,108.5	202.8	18,743.8	283,371
Feb to Dec 2013 Totals	83,082	21,889	121,082	51,341	5,978	283,371	

<u>2014</u>	<u>North County Ground- water</u>	<u>South County Ground- water</u>	<u>Treated Water</u>	<u>SFPUC</u>	<u>SJWC Surface</u>	<u>2014 Monthly Use</u>	<u>2014 Cumulative Use Feb to Dec</u>	<u>Cumulative % Savings from 2013 <+> savings</u>
<i>January water use values are NOT used in water savings calculations or cumulative use values.</i>								<i>Not Applicable</i>
Jan	6,485.1	1,508.7	8,137.3	3,631.3	0.3	19,762.7	19,762.7	
Feb	5,769.3	1,164.3	5,173.0	2,616.7	0.3	14,723.6	14,723.6	9%
Mar	7,341.8	1,305.2	5,754.1	3,011.0	113.4	17,525.5	32,249.2	10%
Apr	8,290.4	1,521.2	6,501.1	4,047.5	110.0	20,470.3	52,719.5	13%
May	11,378.7	2,166.5	8,750.7	5,250.0	54.9	27,600.8	80,320.2	12%
Jun	11,808.4	2,301.6	9,648.4	4,539.0	4.6	28,302.0	108,622.2	11%
Jul	12,541.7	2,233.6	9,908.9	5,069.4	9.8	29,763.4	138,385.7	11%
Aug	10,760.6	2,154.8	10,182.3	4,754.4	404.9	28,257.0	166,642.7	11%
Sep	9,322.9	1,974.2	9,324.1	4,066.8	9.8	24,697.8	191,340.4	12%
Oct	8,970.0	1,775.6	8,216.0	4,172.4	0.3	23,134.3	214,474.7	12%
Nov	7,102.7	1,217.5	5,950.5	2,725.3	0.3	16,996.2	231,470.9	13%
Dec	5,618.2	1,052.3	4,046.9	2,814.3	583.6	14,115.3	245,586.2	13%
Feb to Dec 2014 Totals	98,905	18,867	83,456	43,067	1,292	245,586		
<i>%Savings by Source of Supply</i>	-19%	14%	31%	16%	78%	13%		

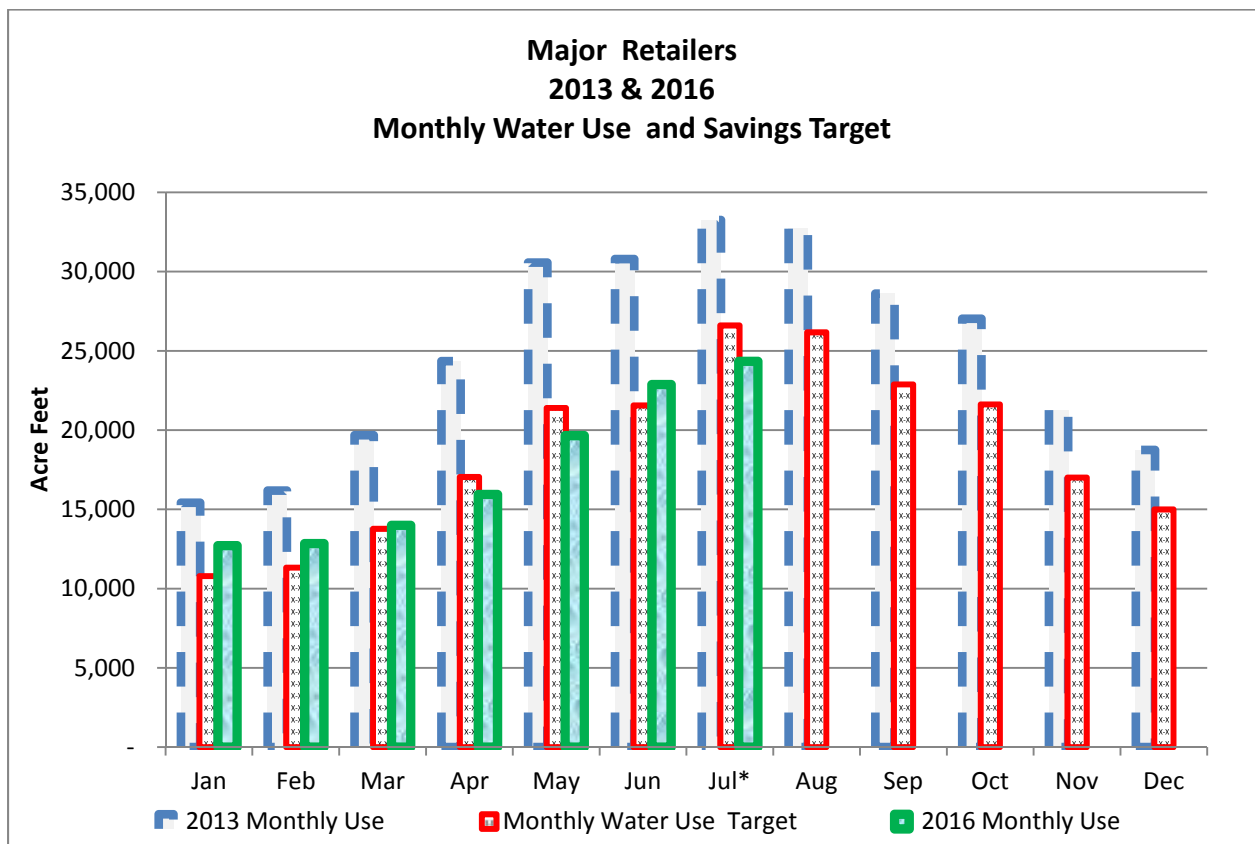
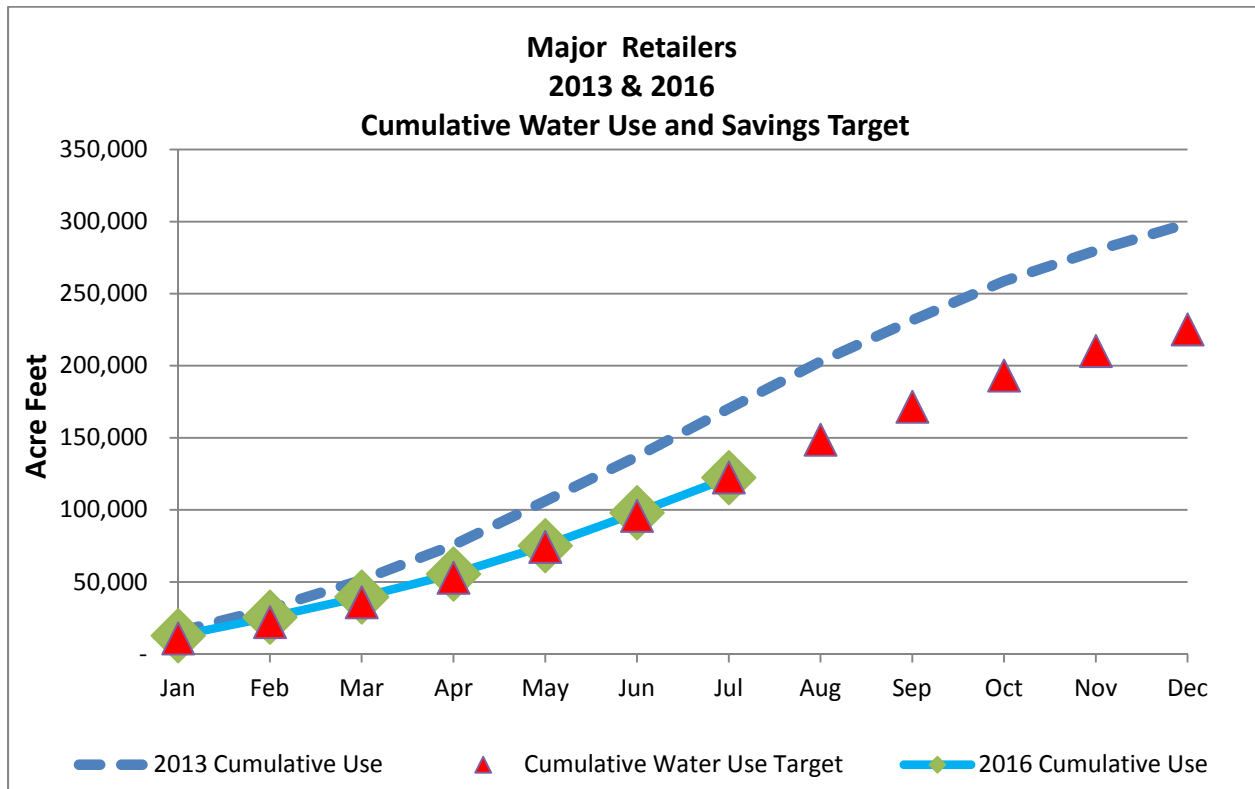
2013 data revised March 2016 due to Purissima correction (meter read adjustment)

These water use data sets do not include recycled water or surface water sales by the District
Percent savings are shown in positive values where savings have been made and negative percent values

Cumulative total from February to current month

Savings Target for February is 10%. March through December is 20% of 2013 monthly use

FIGURE 3: TOTAL RETAILER WATER USE (2013 and 2016)



*current month data does not include Stanford current monthly water use- not available

FIGURE 4: TOTAL RETAILERS WATER USE BY SOURCE (2013 and 2016)

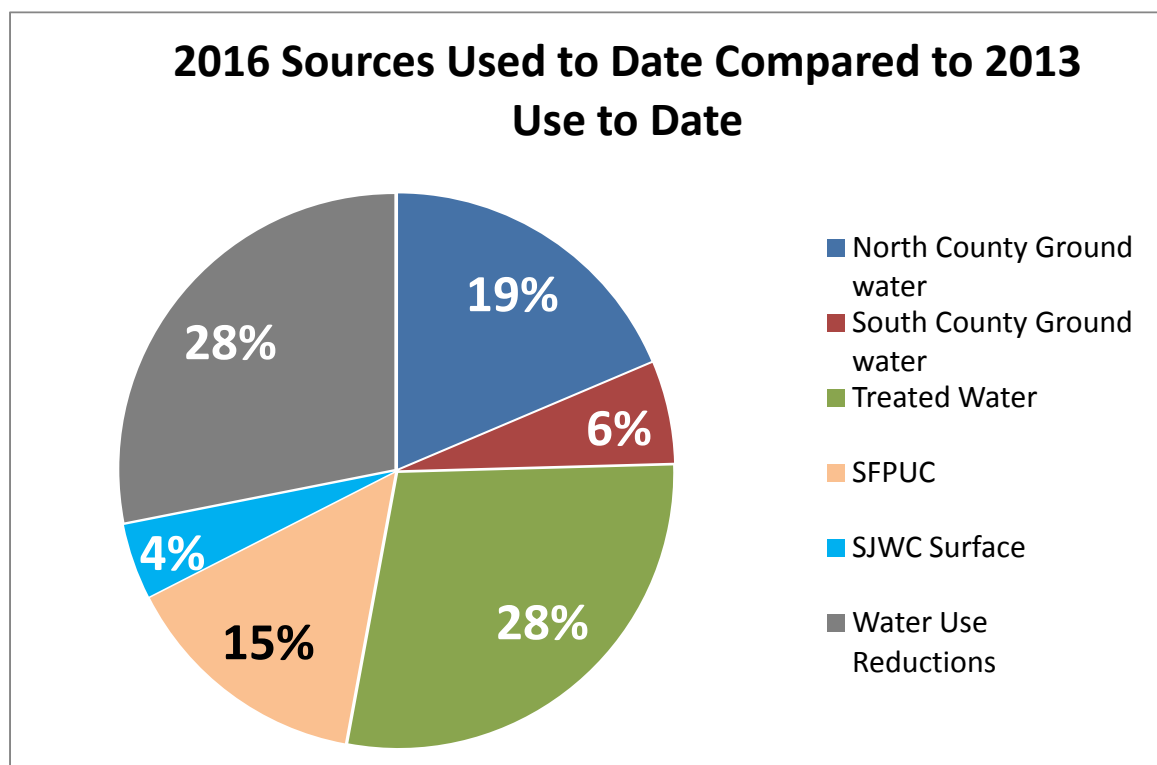
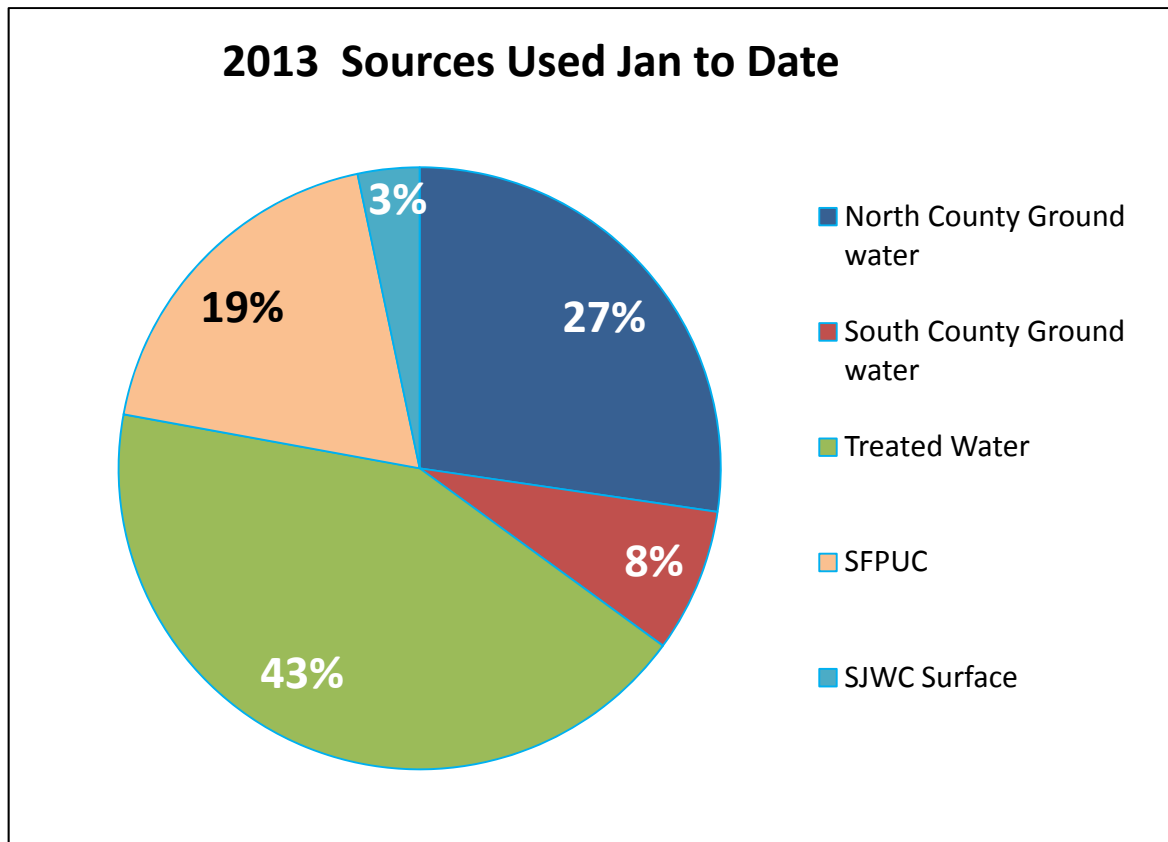


TABLE 4: COUNTY WIDE RECYCLED WATER USE 2013 and 2016

2013	North County Recycled SBWRP WTP	South County Recycled SCRWA WTP	Palo Alto WTP	Sunnyvale WTP
Jan	552.70	95.4	184.5	58.2
Feb	688.70	113.2	177.7	52.0
Mar	819.1	140.7	177.9	61.4
Apr	1,203.0	195.4	194.9	60.6
May	1,574.3	205.7	189.5	51.6
Jun	1,718.3	245.3	180.7	53.6
Jul	1,985.0	284.5	222.1	62.8
Aug	1,824.8	230.5	263.5	57.6
Sep	1,629.6	157.1	247.5	56.0
Oct	1,412.0	115.8	245.4	53.7
Nov	993.1	113.7	218.7	53.7
Dec	894.9	142.2	220.5	37.2
<i>Jan to Dec 2013 Totals</i>	15,295.5	2,039.5	2,522.9	658.4
<i>Jan to Current Month Totals</i>	8,541.1	1,280.2	1,327.3	400.2

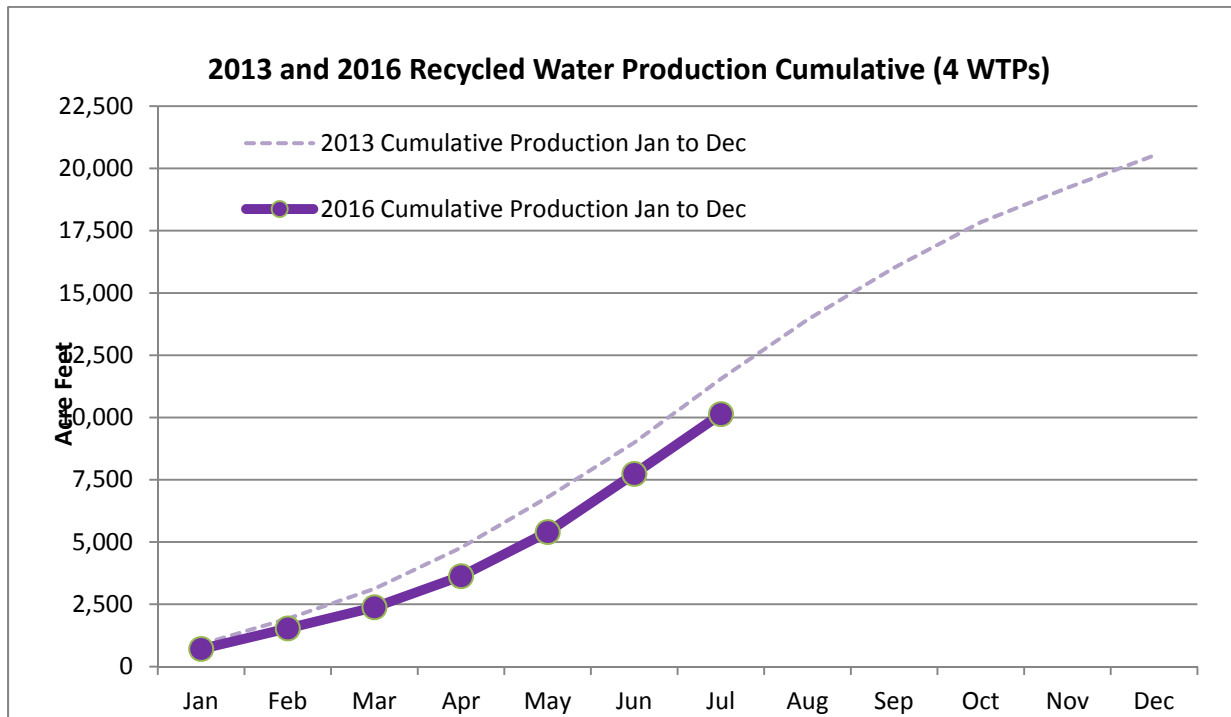
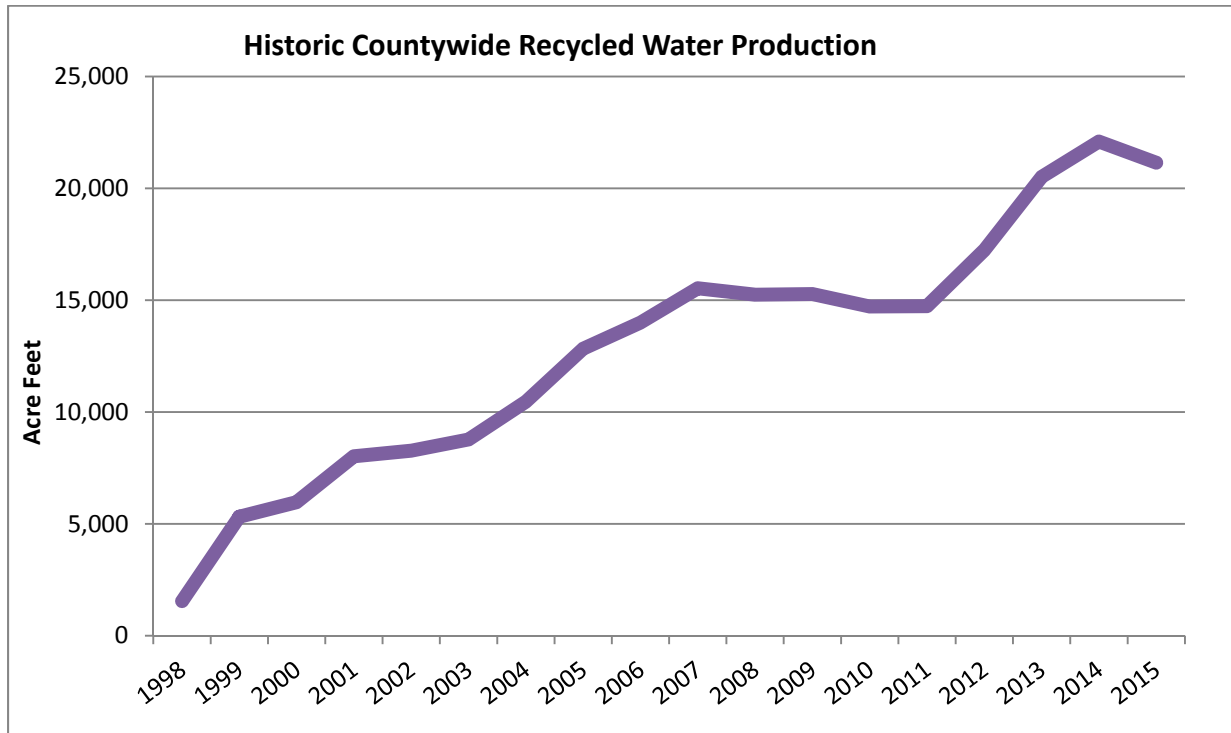
Waters use values are in acre feet

Red values are preliminary data, subject to change and validation

2016	North County Recycled SBWRP WTP	South County Recycled SCRWA WTP	Palo Alto WTP	Sunnyvale WTP
Jan	431	7	254	15
Feb	542	18	242	24
Mar	507	24	292	25
Apr	773	69	354	52
May	1,187	94	377	114
Jun	1,673	129	405	128
Jul	1,857	135	409	-
Aug				
Sep				
Oct				
Nov				
Dec				
<i>Jan to Current Totals</i>	6,970	476	2,333	357
% of 2013 to DATE	82%	37%	176%	89%

Tables contain recycled water volumes produced and sold for re-use in the county. Data does not account for system losses prior to end use. (Therefore, 'use' and 'production' are interchangeable terms in these tables.)

FIGURE 5: COUNTY WIDE RECYCLED WATER USE 2013 and 2016



Section 2. Retailers' Water Use and Savings

This section contains detailed water use data from 2013 and 2016, summarizes cumulative water use saving percent, and illustrates cumulative and monthly trends in water use and savings at the water retailer level. [Please see Section 5, Data Collection Methodology for more information]

TABLE 5: 2016 RETAILER CONSERVATION ACTIONS AND SAVINGS SUMMARY

Water Retailer	Call for Savings	Cumulative Water Use (AF)	Monthly Savings July 2016	Cumulative Savings Jan to June 2016
San Jose Water Co.	20%	58,935	28%	29%
Santa Clara (City)	10%	9,684	17%	22%
Sunnyvale	15%	9,331	26%	26%
San Jose Municipal	20%	8,941	29%	28%
California Water Service	20%	5,769	24%	33%
Palo Alto	10%	5,899	14%	27%
Mountain View	10%	4,914	28%	32%
Great Oaks	20%	5,025	31%	31%
Milpitas	20%	4,894	22%	21%
Gilroy	20%	3,916	23%	26%
Morgan Hill	20%	3,442	27%	30%
Purissima Hills Water	10%	857	22%	29%
Stanford	10%	774 (June ¹)	- ¹	37% (June ¹)
Total		122,381	26%	28%

Values may not add up due to rounding.

¹ July 2016 data not available as of 8/23/2016

TABLE 6: 2016 RETAILER CUMULATIVE AND MONTHLY SAVINGS SUMMARY

Cumulative Water Retailer Savings	<u>Jan to Jan</u>	<u>Jan to Feb</u>	<u>Jan to Mar</u>	<u>Jan to April</u>	<u>Jan to May</u>	<u>Jan to June</u>	<u>Jan to July</u>	<u>Jan to Aug</u>	<u>Jan to Sept</u>	<u>Jan to Oct</u>	<u>Jan to Nov</u>	<u>Jan to Dec</u>
San Jose Water Company	16%	17%	22%	27%	29%	29%	29%					
Santa Clara, city	19%	16%	18%	20%	23%	23%	22%					
Sunnyvale	14%	18%	21%	23%	27%	26%	26%					
San Jose Municipal Water	11%	16%	22%	26%	29%	28%	28%					
California Water Service	35%	33%	37%	39%	38%	35%	33%					
Palo Alto	24%	29%	27%	30%	31%	29%	27%					
Mountain View	30%	31%	28%	31%	34%	33%	32%					
Great Oaks	19%	20%	25%	29%	32%	30%	31%					
Milpitas	17%	18%	16%	18%	22%	21%	21%					
Gilroy	8%	11%	20%	25%	26%	27%	26%					
Morgan Hill	5%	13%	24%	31%	34%	31%	30%					
Purissima Hills Water	59%	45%	49%	40%	39%	32%	29%					
Stanford	34%	39%	36%	39%	38%	37%	¹					
Combined Cumulative Savings	18%	19%	23%	27%	29%	29%	28%					
Month to Month Water Retailer Savings	<u>Jan to Jan</u>	<u>Feb to Feb</u>	<u>Mar to Mar</u>	<u>April to April</u>	<u>May to May</u>	<u>June to June</u>	<u>July to July</u>	<u>Aug to Aug</u>	<u>Sept to Sept</u>	<u>Oct to Oct</u>	<u>Nov to Nov</u>	<u>Dec to Dec</u>
San Jose Water Company	16%	18%	31%	36%	36%	28%	28%					
Santa Clara (City of)	19%	12%	22%	26%	29%	23%	17%					
Sunnyvale	14%	22%	25%	28%	36%	22%	26%					
San Jose Municipal Water	11%	22%	31%	33%	38%	25%	29%					
California Water Service	35%	31%	44%	42%	37%	26%	24%					
Palo Alto	24%	34%	23%	37%	35%	19%	14%					
Mountain View	30%	32%	23%	35%	42%	27%	28%					
Great Oaks	19%	21%	33%	38%	37%	26%	31%					
Milpitas	17%	20%	12%	24%	31%	18%	22%					
Gilroy	8%	13%	34%	33%	31%	28%	23%					
Morgan Hill	5%	19%	38%	43%	41%	21%	27%					
Purissima Hills Water	59%	26%	54%	22%	36%	11%	22%					
Stanford	34%	43%	31%	44%	38%	30%	¹					
Combined Month to Month 2015	18%	21%	29%	35%	36%	26%	26%					

¹: Stanford data not available due to late month meter read by SFPUC

TABLE 7: 2015 RETAILER CUMULATIVE AND MONTHLY SAVINGS SUMMARY

Cumulative Water Retailer Savings	<u>Jan to Jan</u>	<u>Jan to Feb</u>	<u>Jan to Mar</u>	<u>Jan to April</u>	<u>Jan to May</u>	<u>Jan to June</u>	<u>Jan to July</u>	<u>Jan to Aug</u>	<u>Jan to Sept</u>	<u>Jan to Oct</u>	<u>Jan to Nov</u>	<u>Jan to Dec</u>
San Jose Water Company	-3%	1%	3%	10%	18%	22%	25%	27%	27%	27%	28%	28%
Santa Clara, city	2%	5%	4%	6%	11%	15%	16%	19%	18%	18%	19%	18%
Sunnyvale	-6%	7%	6%	12%	20%	23%	26%	27%	27%	26%	27%	26%
San Jose Municipal Water	-8%	2%	4%	11%	19%	22%	25%	26%	26%	26%	26%	26%
California Water Service	8%	11%	10%	15%	23%	27%	29%	31%	31%	32%	32%	33%
Palo Alto	10%	15%	12%	16%	25%	26%	27%	29%	29%	29%	29%	29%
Mountain View	0%	13%	10%	15%	22%	24%	25%	28%	28%	28%	28%	28%
Great Oaks	0%	5%	7%	13%	20%	24%	26%	28%	28%	29%	29%	29%
Milpitas	1%	6%	4%	8%	14%	16%	18%	20%	19%	19%	19%	18%
Gilroy	-5%	0%	5%	12%	18%	22%	25%	26%	26%	26%	27%	26%
Morgan Hill	-8%	-2%	6%	19%	24%	26%	30%	31%	31%	32%	33%	33%
Purissima Hills Water	-4%	14%	7%	21%	25%	29%	31%	31%	29%	27%	28%	29%
Stanford	-3%	6%	7%	13%	22%	24%	24%	26%	25%	26%	28%	28%
Combined Cumulative Savings	-2%	4%	5%	11%	18%	22%	25%	26%	27%	27%	27%	27%
Month to Month Water Retailer Savings	<u>Jan to Jan</u>	<u>Feb to Feb</u>	<u>Mar to Mar</u>	<u>April to April</u>	<u>May to May</u>	<u>June to June</u>	<u>July to July</u>	<u>Aug to Aug</u>	<u>Sept to Sept</u>	<u>Oct to Oct</u>	<u>Nov to Nov</u>	<u>Dec to Dec</u>
San Jose Water Company	-3%	5%	7%	25%	36%	35%	38%	36%	31%	28%	33%	30%
Santa Clara (City of)	2%	7%	3%	11%	26%	29%	20%	33%	11%	17%	30%	16%
Sunnyvale	-6%	18%	4%	27%	38%	36%	37%	36%	25%	21%	29%	20%
San Jose Municipal Water	-8%	11%	7%	24%	39%	33%	35%	34%	25%	24%	30%	21%
California Water Service	8%	15%	8%	26%	40%	40%	39%	37%	34%	36%	42%	44%
Palo Alto	10%	19%	6%	25%	46%	31%	31%	38%	28%	32%	36%	26%
Mountain View	0%	24%	3%	27%	38%	33%	31%	41%	25%	27%	37%	19%
Great Oaks	0%	10%	10%	25%	38%	37%	36%	35%	33%	30%	34%	27%
Milpitas	1%	11%	-1%	17%	31%	24%	25%	32%	13%	16%	23%	10%
Gilroy	-5%	5%	13%	24%	34%	33%	35%	32%	28%	27%	30%	24%
Morgan Hill	-8%	3%	17%	39%	35%	35%	42%	34%	36%	35%	46%	38%
Purissima Hills Water	-4%	25%	-3%	40%	37%	40%	41%	27%	19%	8%	37%	47%
Stanford	-3%	13%	8%	29%	44%	35%	19%	42%	18%	37%	43%	37%
Combined Month to Month 2015	-2%	9%	7%	24%	36%	34%	36%	35%	28%	27%	33%	27%

TABLE 8: 2014 RETAILER CUMULATIVE SAVINGS SUMMARY
(Savings calculated from February 2014 to December 2014)

Cumulative Water Retailer Savings	Feb to Feb	Feb to Mar	Feb to April	Feb to May	Feb to June	Feb to July	Feb to Aug	Feb to Sept	Feb to Oct	Feb to Nov	Feb to Dec	Total Savings	Savings District Source	Savings SFPUC Supply
San Jose Water Company	3%	6%	10%	10%	9%	10%	10%	11%	11%	12%	13%	13%	13%	N/A
Santa Clara (City of)	7%	8%	9%	7%	8%	8%	8%	8%	8%	9%	10%	10%	9%	16%
Sunnyvale	16%	15%	17%	15%	14%	14%	14%	13%	13%	13%	14%	14%	7%	22%
San Jose Municipal Water	15%	16%	18%	14%	12%	12%	12%	12%	12%	12%	13%	13%	6%	4%
California Water Service	15%	18%	19%	15%	13%	13%	13%	13%	14%	14%	16%	16%	16%	N/A
Palo Alto	32%	25%	16%	17%	16%	13%	15%	15%	15%	16%	16%	16%	N/A	16%
Mountain View	24%	18%	18%	17%	14%	14%	14%	14%	14%	15%	16%	16%	-6%	19%
Great Oaks	7%	11%	16%	15%	13%	14%	14%	15%	15%	16%	16%	16%	16%	N/A
Milpitas	11%	11%	11%	11%	10%	10%	11%	11%	11%	11%	11%	11%	-1%	16%
Gilroy	2%	11%	17%	14%	13%	12%	12%	13%	13%	14%	14%	14%	14%	N/A
Morgan Hill	-7%	9%	15%	16%	16%	16%	15%	15%	16%	18%	19%	19%	19%	N/A
Purissima Hills Water	45%	34%	28%	14%	14%	12%	14%	14%	14%	16%	16%	16%	N/A	16%
Stanford	24%	21%	15%	10%	10%	7%	8%	8%	6%	8%	7%	7%	N/A	7%
Total Cumulative Savings	9%	11%	13%	12%	11%	11%	11%	12%	12%	13%	13%	13%	11%	16%

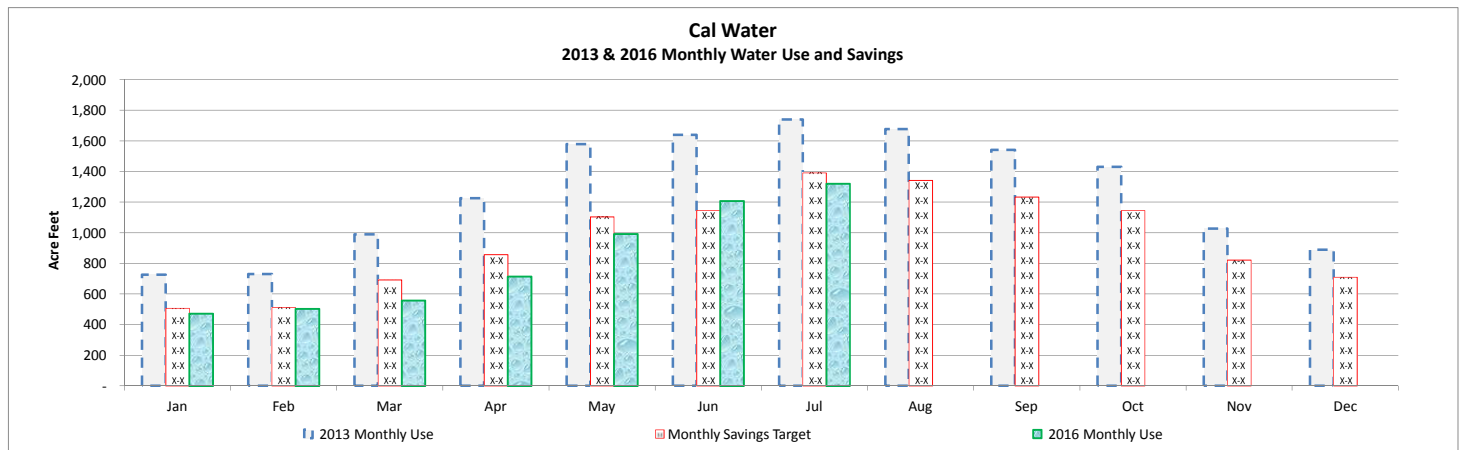
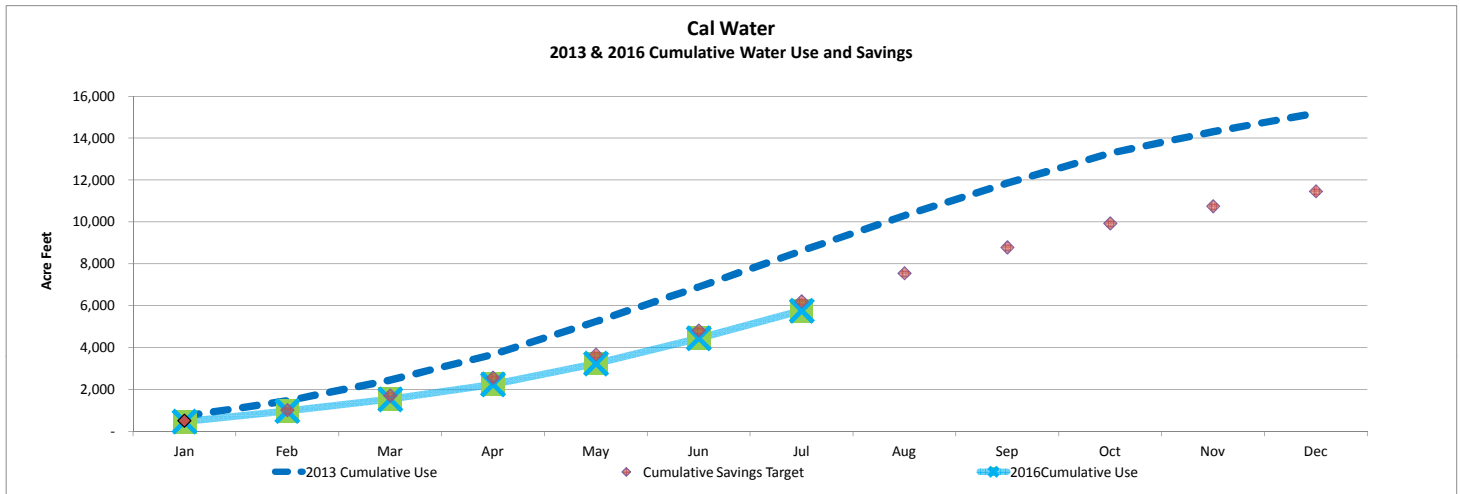
California Water Service Company

2013 and 2016 Water Use Compared to Target

2013	Groundwater	Treated Water	SFPUC	Surface	2013 Monthly Use
Jan	215.0	510.0	-	-	725.0
Feb	254.0	477.0	-	-	731.0
Mar	446.0	544.0	-	-	990.0
Apr	439.0	786.0	-	-	1,225.0
May	672.0	906.0	-	-	1,578.0
Jun	709.0	930.0	-	-	1,639.0
Jul	690.0	1,049.0	-	-	1,739.0
Aug	437.0	1,241.0	-	-	1,678.0
Sep	321.0	1,221.0	-	-	1,542.0
Oct	363.0	1,068.0	-	-	1,431.0
Nov	183.0	844.0	-	-	1,027.0
Dec	262.0	626.0	-	-	888.0
Jan to Current Month	3,425.0	5,202.0	-	-	8,627.0
January to December Total	4,991.0	10,202.0	-	-	15,193.0

2016	Groundwater	Treated Water	SFPUC	Surface	2016 Monthly Use
Jan	264.0	208.0	-	-	472.0
Feb	288.0	216.0	-	-	504.0
Mar	260.0	298.0	-	-	558.0
Apr	200.0	514.0	-	-	714.0
May	124.0	868.0	-	-	992.0
Jun	107.0	1,101.0	-	-	1,208.0
Jul	126.0	1,195.0	-	-	1,321.0
Aug	-	-	-	-	-
Sep	-	-	-	-	-
Oct	-	-	-	-	-
Nov	-	-	-	-	-
Dec	-	-	-	-	-
Jan to Current Month	1,369.0	4,400.0	-	-	5,769.0
%Savings by Source of Supply	60%	15%			33%

Cumulative % Savings Jan to December
(+) = savings
35%
33%
37%
39%
38%
35%
33%
-
-
-
-
-



Notes

Current monthly water use data is preliminary and subject to change.

The initial water use reduction target for 2016 was 30%, but was changed on June 14, 2016, to 20% for 2016

Percent savings are shown in positive values where savings have been made and negative percent values where water use is higher than the base year period (2013)

Cumulative % Savings shows the target savings for all months combined at that period in time.

Recycled water not included in monthly analysis and will be analyzed separately. It is not included in the water savings target.

N/A = Not Applicable

'-' Not Available



As of 8/23/2016

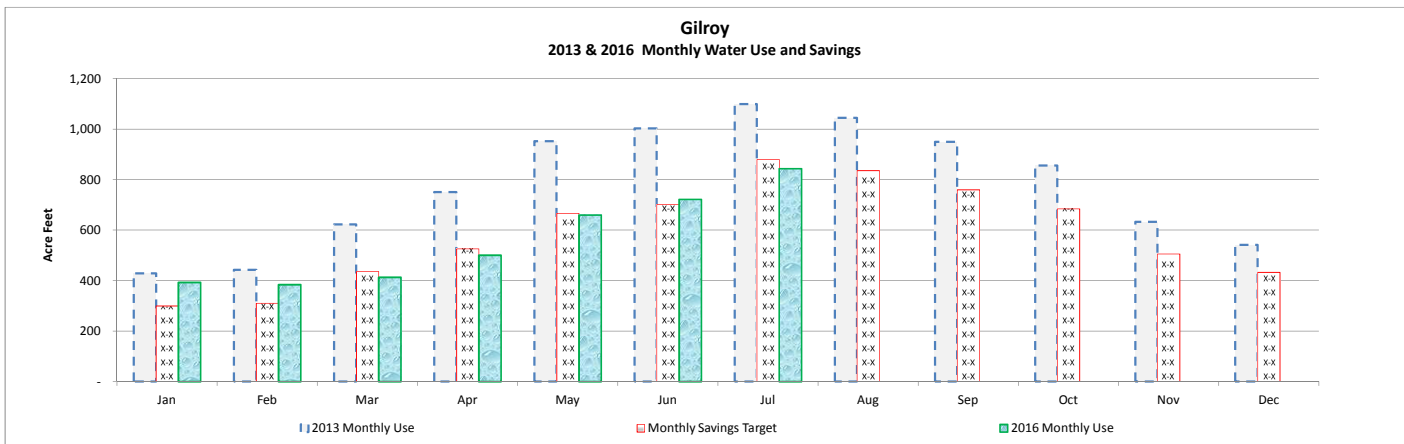
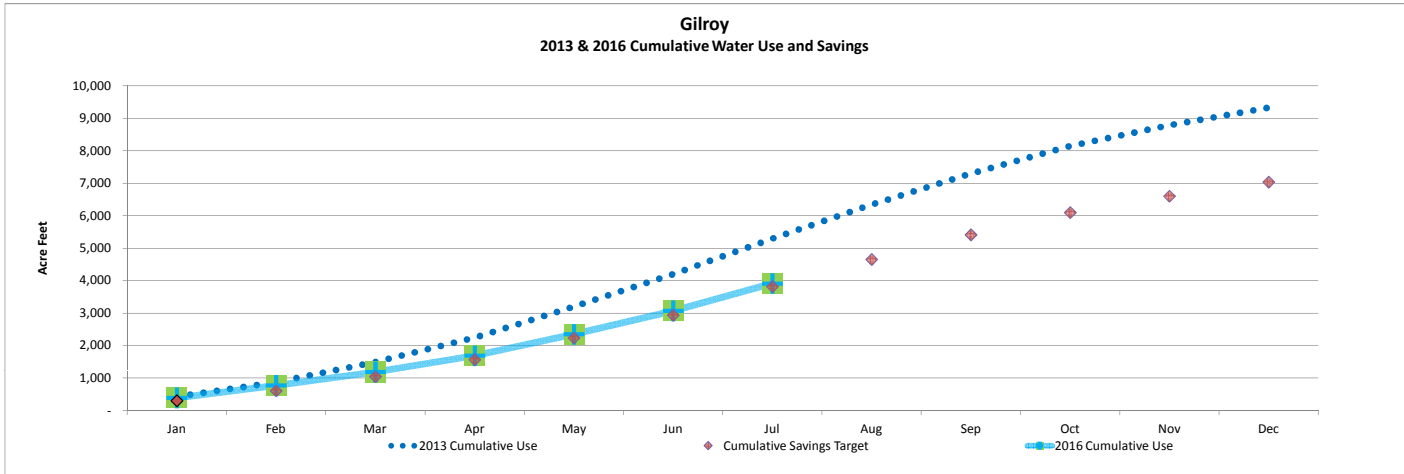
Gilroy

2013 and 2016 Water Use Compared to Target

2013	Groundwater	Treated Water	SFPUC	Surface Water	2013 Monthly Use
Jan	428.0	-	-	-	428.0
Feb	443.0	-	-	-	443.0
Mar	623.0	-	-	-	623.0
Apr	751.0	-	-	-	751.0
May	952.0	-	-	-	952.0
Jun	1,002.6	-	-	-	1,002.6
Jul	1,099.5	-	-	-	1,099.5
Aug	1,045.0	-	-	-	1,045.0
Sep	950.0	-	-	-	950.0
Oct	856.0	-	-	-	856.0
Nov	632.0	-	-	-	632.0
Dec	541.0	-	-	-	541.0
Jan to Current Month Totals	5,299.1	-	-	-	5,299.1
January to December Total	9,323.1	-	-	-	9,323.1

2016	Groundwater	Treated Water	SFPUC	Surface Water	2016 Monthly Use
Jan	392.7	-	-	-	392.7
Feb	383.8	-	-	-	383.8
Mar	413.1	-	-	-	413.1
Apr	500.7	-	-	-	500.7
May	659.9	-	-	-	659.9
Jun	721.6	-	-	-	721.6
Jul	843.7	-	-	-	843.7
Aug	-	-	-	-	-
Sep	-	-	-	-	-
Oct	-	-	-	-	-
Nov	-	-	-	-	-
Dec	-	-	-	-	-
Jan to Current Month Totals	3,915.6	-	-	-	3,915.6
%Savings by Source of Supply	26%				26%

Cumulative % Savings Jan to December
(+) = savings
8%
11%
20%
25%
26%
27%
26%
-
-
-
-
-



Notes

Current monthly water use data is preliminary and subject to change.

The initial water use reduction target for 2016 was 30%, but was changed on June 14, 2016, to 20% for 2016

Percent savings are shown in positive values where savings have been made and negative percent values where water use is higher than the base year period (2013)

Cumulative % Savings shows the target savings for all months combined at that period in time.

Recycled water not included in monthly analysis and will be analyzed separately. It is not included in the water savings target.

N/A = Not Applicable

- Not Available



As of 8/23/2016

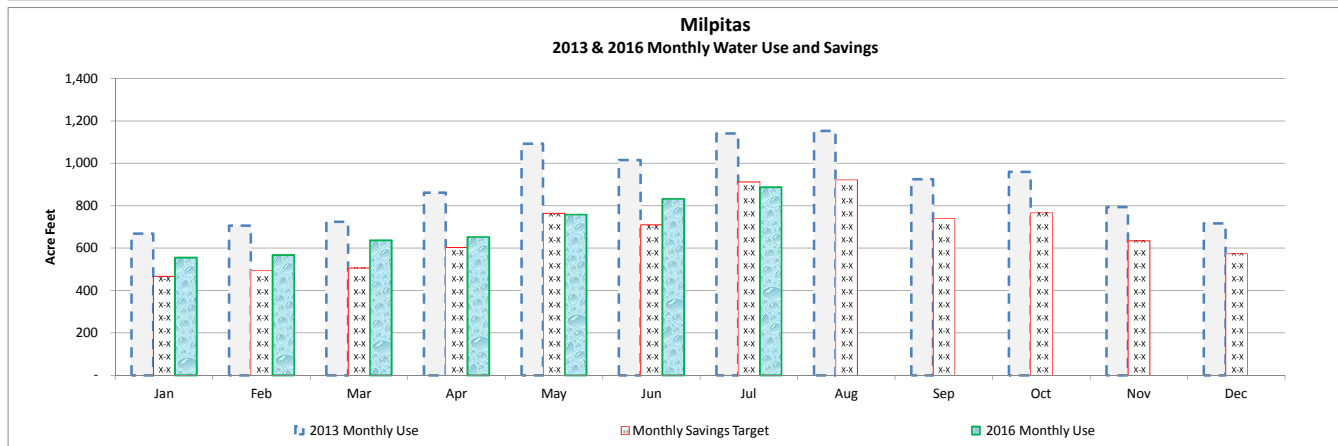
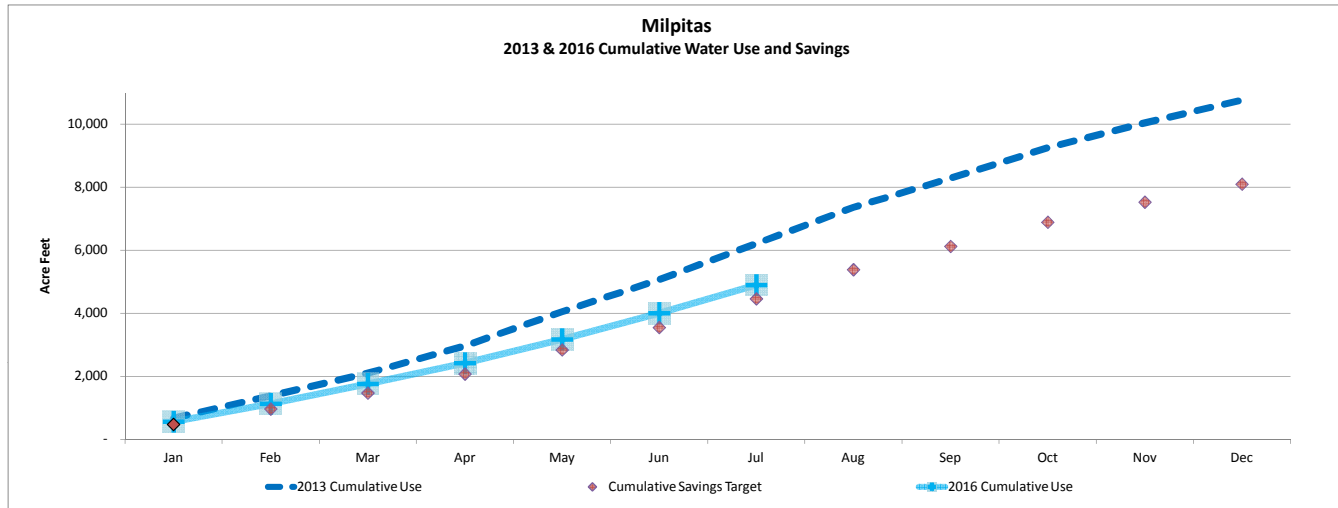
Milpitas, City

2013 and 2016 Water Use Compared to Target

2013	Groundwater	Treated Water	SFPUC	Surface Water	2013 Monthly Use
Jan	-	235.0	433.0	-	668.0
Feb	-	228.0	478.0	-	706.0
Mar	-	263.0	461.0	-	724.0
Apr	-	288.0	574.0	-	862.0
May	-	323.0	770.0	-	1,093.0
Jun	-	310.0	705.0	-	1,015.0
Jul	-	377.0	764.0	-	1,141.0
Aug	-	298.0	855.0	-	1,153.0
Sep	-	182.0	743.0	-	925.0
Oct	-	228.0	731.0	-	959.0
Nov	-	253.0	541.0	-	794.0
Dec	-	265.0	452.0	-	717.0
Jan to Current Month Totals		2,024.0	4,185.0		6,209.0
January to December Total	-	3,250.0	7,507.0	-	10,757.0

2016	Groundwater	Treated Water	SFPUC	Surface Water	2016 Monthly Use
Jan	-	233.5	322.6	-	556.2
Feb	-	238.0	330.2	-	568.2
Mar	-	271.4	365.5	-	636.9
Apr	-	267.6	385.4	-	652.9
May	-	293.5	465.5	-	759.0
Jun	-	309.0	524.0	-	833.0
Jul	-	322.0	565.9	-	888.0
Aug	-	-	-	-	-
Sep	-	-	-	-	-
Oct	-	-	-	-	-
Nov	-	-	-	-	-
Dec	-	-	-	-	-
Jan to Current Month Totals	-	1,935.1	2,959.1	-	4,894.2
% Savings by Source of Supply	-	4%	29%	-	21%

Cumulative % Savings Jan to December
(+) = savings
17%
18%
16%
18%
22%
21%
21%
-
-
-
-



Notes

Current monthly water use data is preliminary and subject to change.

The initial water use reduction target for 2016 was 30%, but was changed on June 14, 2016, to 20% for 2016

Percent savings are shown in positive values where savings have been made and negative percent values where water use is higher than the base year period (2013)

Cumulative % Savings shows the target savings for all months combined at that period in time.

Recycled water not included in monthly analysis and will be analyzed separately. It is not included in the water savings target.

January to March 2015 savings targets at 20% reductions compared to the same period in 2013, and the remaining months are at the March 24, 2015 call for 30% savings.

N/A = Not Applicable

- Not Available

SFPUC - San Francisco Public Utilities Commission Water Sales. SFPUC Drought response is a call for voluntary 10% savings

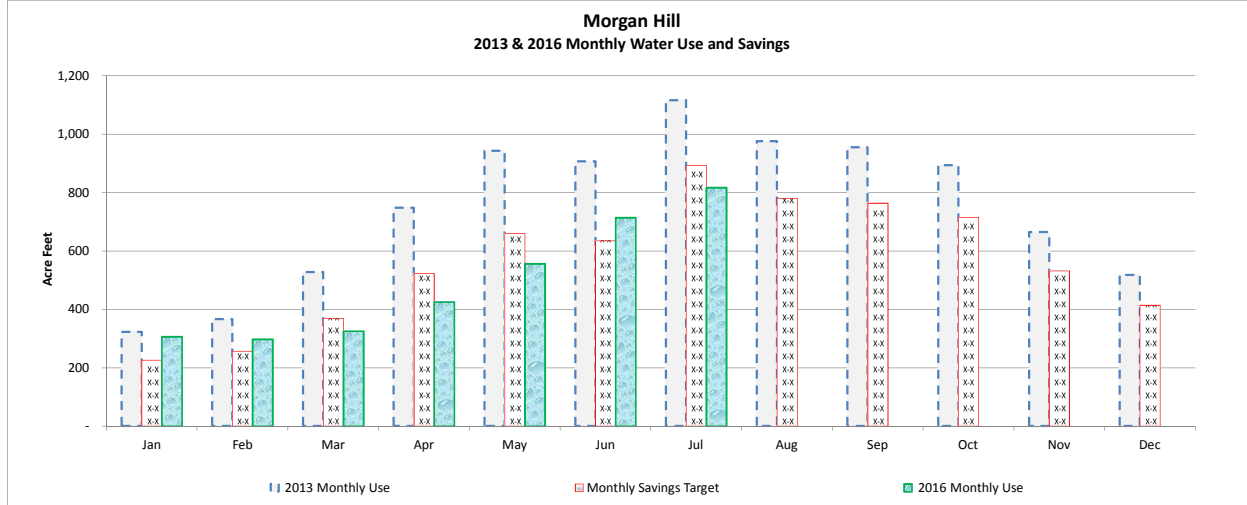
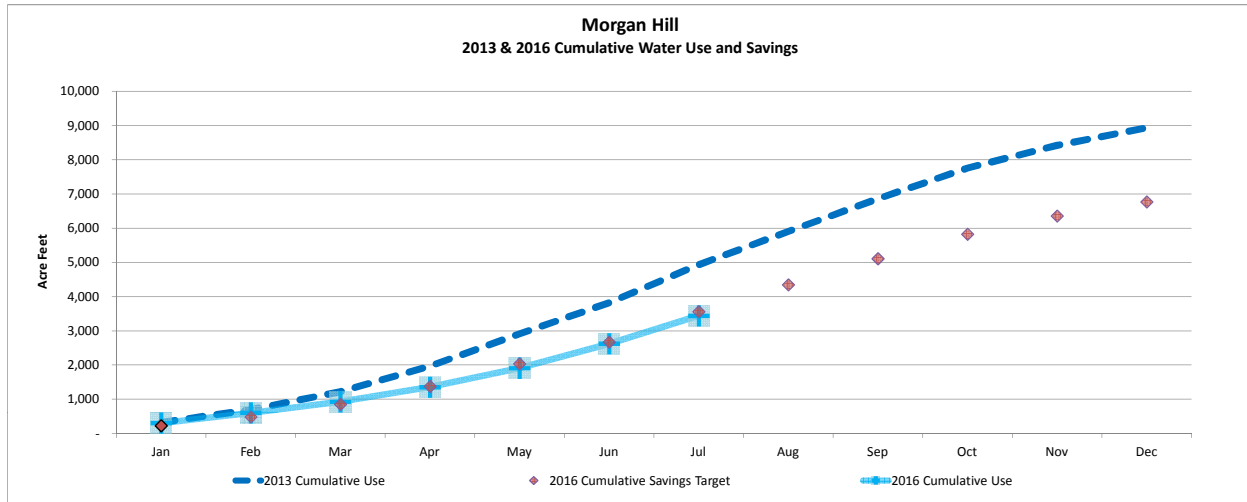
Morgan Hill, City

2013 and 2016 Water Use Compared to Target

2013	Groundwater	Treated Water	SFPUC	Other	2013 Monthly Use
Jan	323.0	-	-	-	323.0
Feb	367.0	-	-	-	367.0
Mar	528.0	-	-	-	528.0
Apr	748.0	-	-	-	748.0
May	943.0	-	-	-	943.0
Jun	907.0	-	-	-	907.0
Jul	1,116.0	-	-	-	1,116.0
Aug	976.0	-	-	-	976.0
Sep	955.0	-	-	-	955.0
Oct	894.0	-	-	-	894.0
Nov	665.0	-	-	-	665.0
Dec	518.0	-	-	-	518.0
Jan to Current Month Totals	4,932.0	-	-	-	4,932.0
January to December Total	8,940.0	-	-	-	8,940.0

2016	Groundwater	Treated Water	SFPUC	Other	2016 Monthly Use
Jan	306.0	-	-	-	306.0
Feb	297.5	-	-	-	297.5
Mar	325.4	-	-	-	325.4
Apr	425.3	-	-	-	425.3
May	556.0	-	-	-	556.0
Jun	714.3	-	-	-	714.3
Jul	817.0	-	-	-	817.0
Aug	-	-	-	-	-
Sep	-	-	-	-	-
Oct	-	-	-	-	-
Nov	-	-	-	-	-
Dec	-	-	-	-	-
Jan to Current Month Totals	3,441.5	-	-	-	3,441.5
%Savings by Source of Supply	30%	-	-	-	30%

Cumulative % Savings Jan to December
(+) = savings
5%
13%
24%
31%
34%
31%
30%
-
-
-
-
-



Notes

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N/A = Not Applicable

- Not Available



As of 8/23/2016

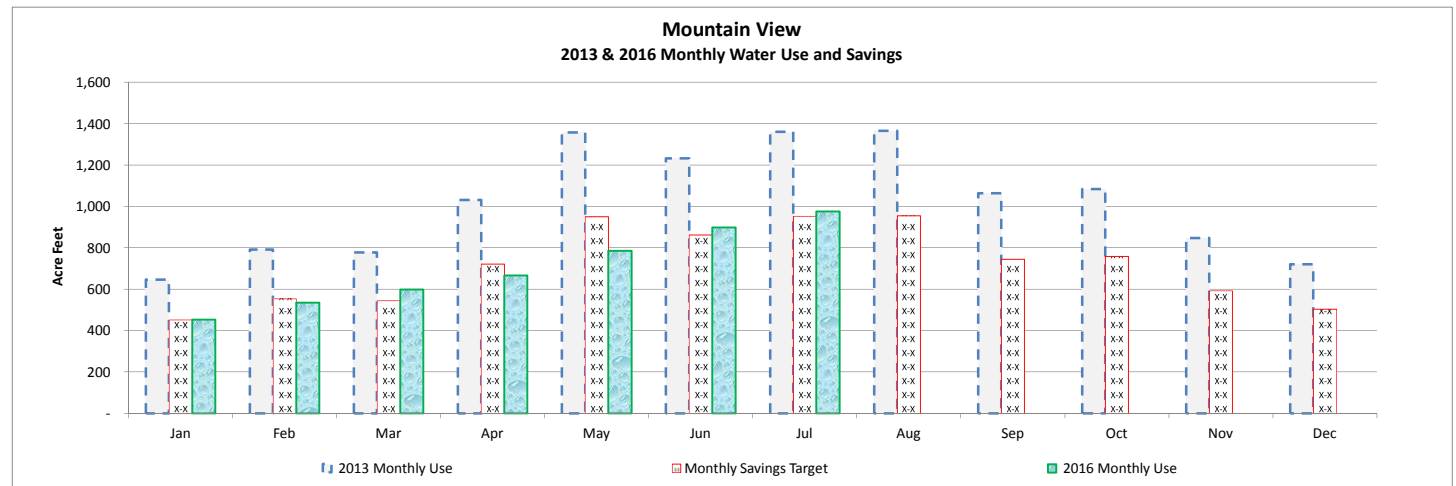
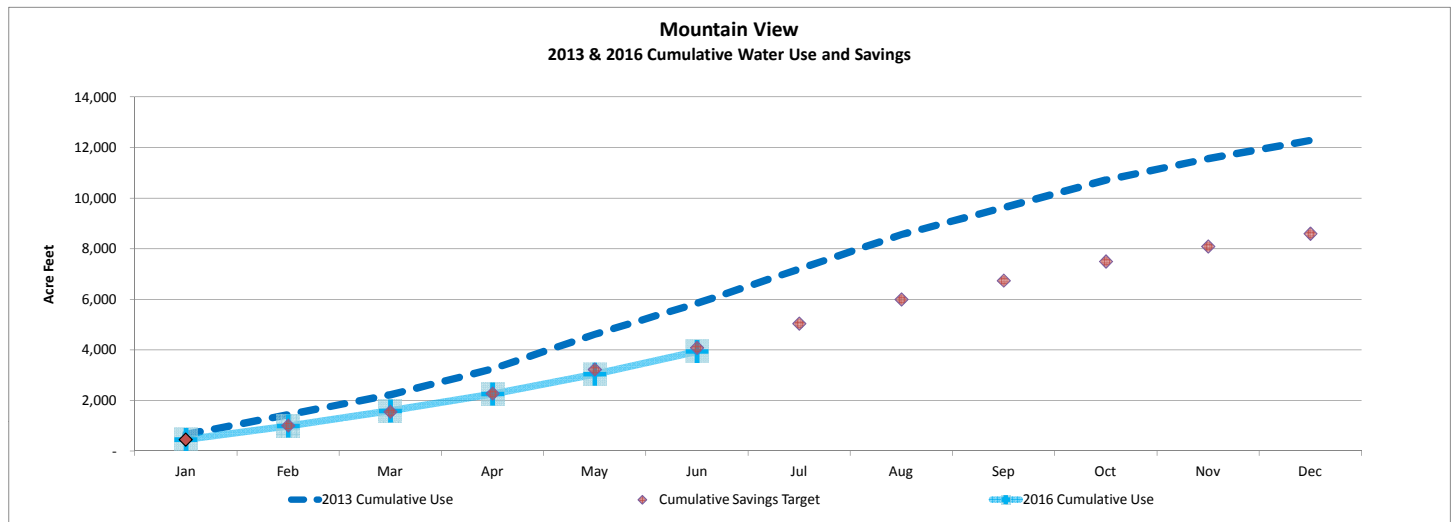
Mt. View

2013 and 2016 Water Use Compared to Target

2013	Groundwater	Treated Water	SFPUC	Surface Water	2013 Monthly Use
Jan	28.0	54.0	564.0	-	646.0
Feb	28.0	63.0	700.0	-	791.0
Mar	38.0	85.0	655.0	-	778.0
Apr	35.0	110.0	886.0	-	1,031.0
May	40.0	142.0	1,176.0	-	1,358.0
Jun	41.0	142.0	1,049.0	-	1,232.0
Jul	29.0	155.0	1,177.0	-	1,361.0
Aug	30.0	152.0	1,183.0	-	1,365.0
Sep	24.0	134.0	906.0	-	1,064.0
Oct	35.0	121.0	928.0	-	1,084.0
Nov	31.0	92.0	724.0	-	847.0
Dec	30.0	79.0	611.0	-	720.0
Jan to Current Month Totals	239.0	751.0	6,207.0	-	7,197.0
January to December Total	389.0	1,329.0	10,559.0	-	12,277.0

2016	Groundwater	Treated Water	SFPUC	Surface Water	2016 Monthly Use
Jan	5.6	32.7	415.7	-	454.0
Feb	5.6	47.4	482.3	-	535.4
Mar	7.0	50.7	540.4	-	598.1
Apr	8.5	64.1	593.6	-	666.1
May	12.5	89.0	684.3	-	785.8
Jun	12.1	104.0	782.5	-	898.6
Jul	12.7	112.8	850.3	-	975.8
Aug	-	-	-	-	-
Sep	-	-	-	-	-
Oct	-	-	-	-	-
Nov	-	-	-	-	-
Dec	-	-	-	-	-
Jan to Current Month Totals	64.0	500.6	4,349.1	-	4,913.7
%Savings by Source of Supply	73%	33%	30%	-	32%

Cumulative % Savings Jan to December
(+) = savings
30%
31%
28%
31%
34%
33%
32%
-
-
-
-
-



Notes

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N/A = Not Applicable

- Not Available

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As of 8/23/2016

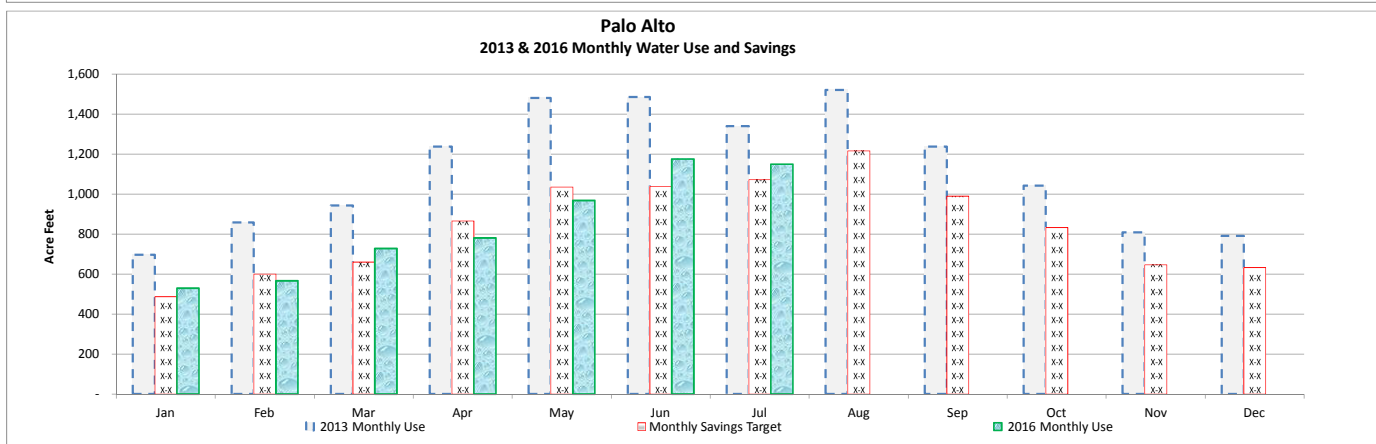
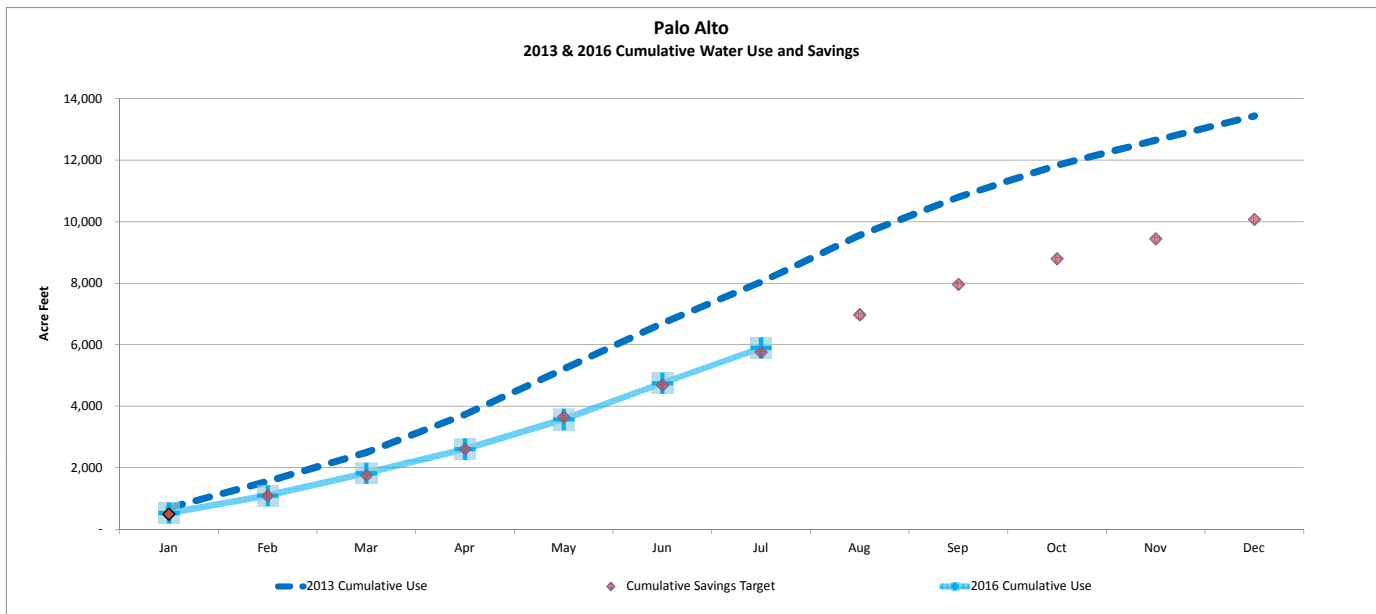
Palo Alto

2013 and 2016 Water Use Compared to Target

2013	Groundwater	Treated Water	SFPUC	Other	2013 Monthly Use
Jan	-	-	696.0	-	696.0
Feb	-	-	857.5	-	857.5
Mar	-	-	943.0	-	943.0
Apr	-	-	1,237.3	-	1,237.3
May	-	-	1,479.7	-	1,479.7
Jun	-	-	1,484.3	-	1,484.3
Jul	-	-	1,340.2	-	1,340.2
Aug	-	-	1,520.7	-	1,520.7
Sep	-	-	1,237.3	-	1,237.3
Oct	-	-	1,041.1	-	1,041.1
Nov	-	-	807.9	-	807.9
Dec	-	-	791.2	-	791.2
Jan to Current Month Totals	-	-	8,037.8	-	8,037.8
January to December Total	-	-	13,435.9	-	13,435.9

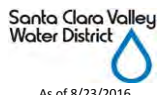
2016	Groundwater	Treated Water	SFPUC	Other	2016 Monthly Use
Jan	-	-	529.6	-	529.6
Feb	-	-	566.3	-	566.3
Mar	-	-	728.2	-	728.2
Apr	-	-	781.4	-	781.4
May	-	-	968.3	-	968.3
Jun	-	-	1,175.6	-	1,175.6
Jul	-	-	1,149.9	-	1,149.9
Aug	-	-	-	-	-
Sep	-	-	-	-	-
Oct	-	-	-	-	-
Nov	-	-	-	-	-
Dec	-	-	-	-	-
Jan to Current Month Totals	-	-	5,899.2	-	5,899.2
%Savings by Source of Supply			27%		27%

Cumulative % Savings Jan to December
(+) = savings
24%
29%
27%
30%
31%
29%
27%
-
-
-
-
-



Notes

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As of 8/23/2016

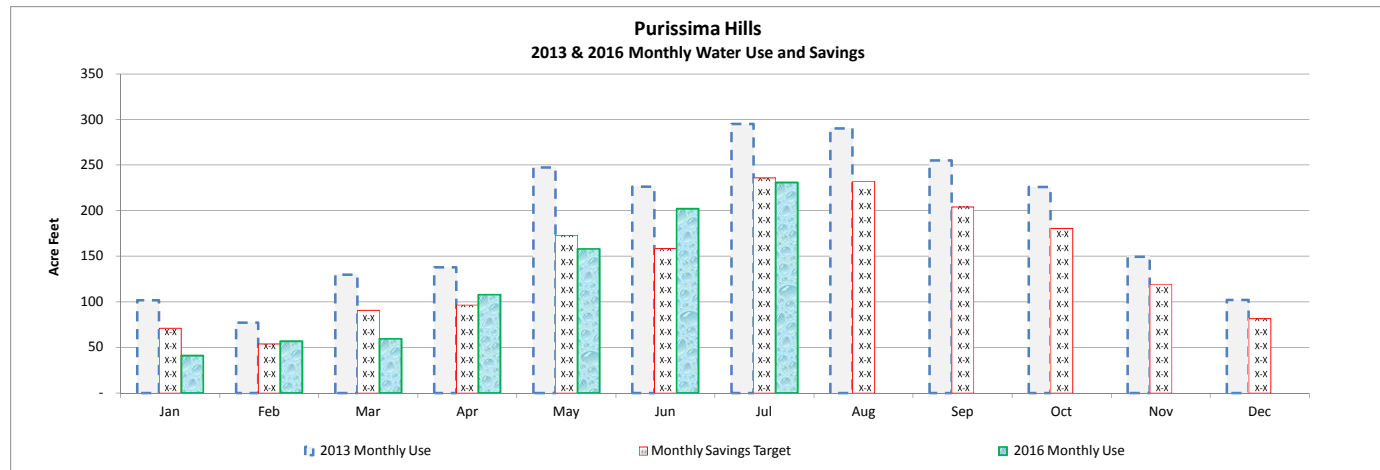
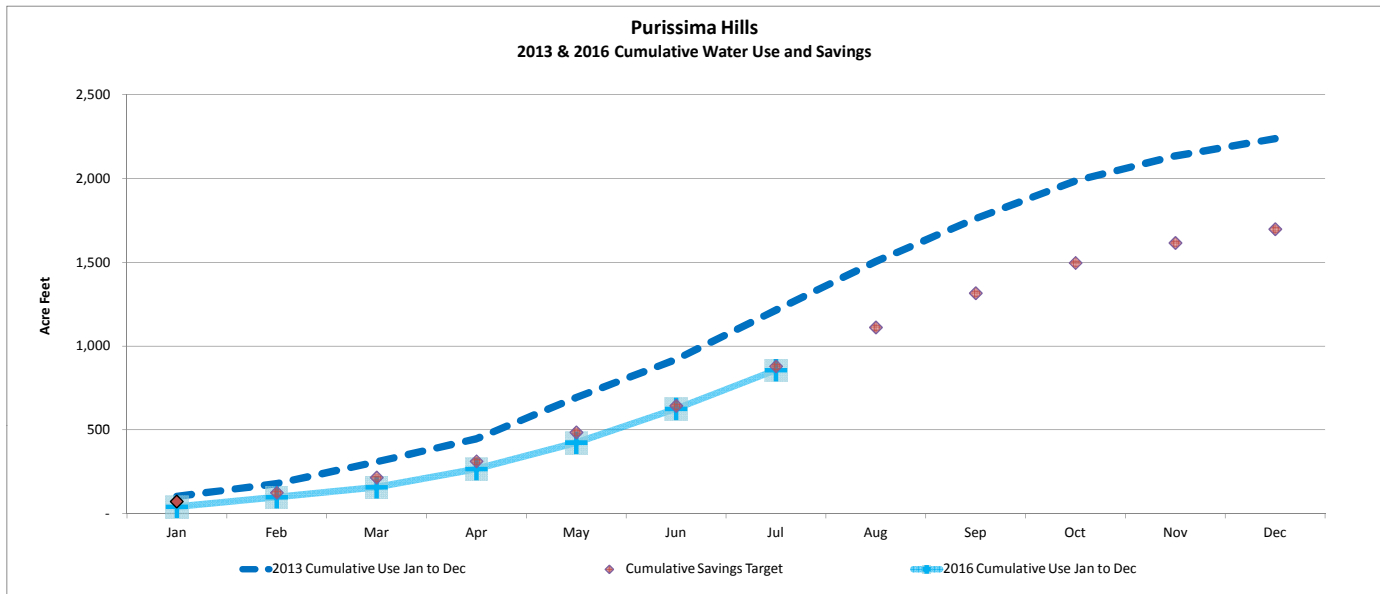
Purissima Hills

2013 and 2016 Water Use Compared to Target

2013	Groundwater	Treated Water	SFPUC	Other	2013 Monthly Use
Jan	-	-	101.5	-	101.5
Feb	-	-	77.0	-	77.0
Mar	-	-	129.6	-	129.6
Apr	-	-	138.0	-	138.0
May	-	-	247.3	-	247.3
Jun	-	-	226.4	-	226.4
Jul	-	-	295.0	-	295.0
Aug	-	-	290.0	-	290.0
Sep	-	-	255.2	-	255.2
Oct	-	-	225.9	-	225.9
Nov	-	-	149.3	-	149.3
Dec	-	-	102.2	-	102.2
Jan to Current Month Totals	-	-	1,214.9	-	1,214.9
January to December Total	-	-	2,237.5	-	2,237.5

2016	Groundwater	Treated Water	SFPUC	Other	2016 Monthly Use
Jan	-	-	41.2	-	41.2
Feb	-	-	57.1	-	57.1
Mar	-	-	59.6	-	59.6
Apr	-	-	108.0	-	108.0
May	-	-	158.2	-	158.2
Jun	-	-	202.3	-	202.3
Jul	-	-	231.0	-	231.0
Aug	-	-	-	-	-
Sep	-	-	-	-	-
Oct	-	-	-	-	-
Nov	-	-	-	-	-
Dec	-	-	-	-	-
Jan to Current Month Totals	-	-	857.3	-	857.3
%Savings by Source of Supply			29%		29%

Cumulative % Savings Jan to December
(+) = savings
59%
45%
49%
40%
39%
32%
29%
-
-
-
-
-



Notes

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2013 Data was changed after change in meter reading schedule (updated March 2016)



As of 8/23/2016

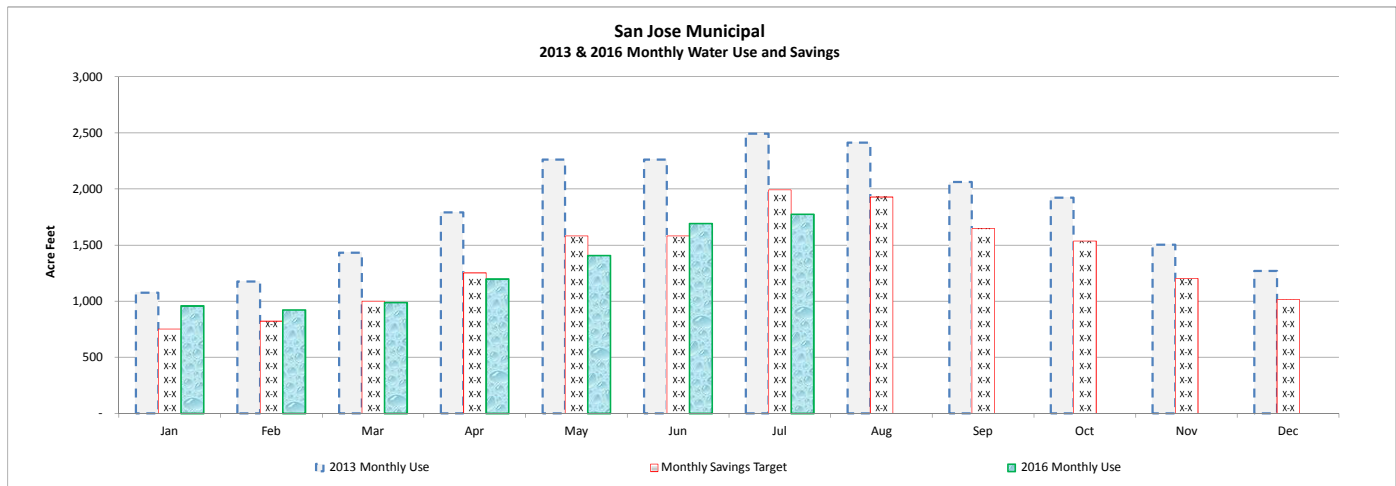
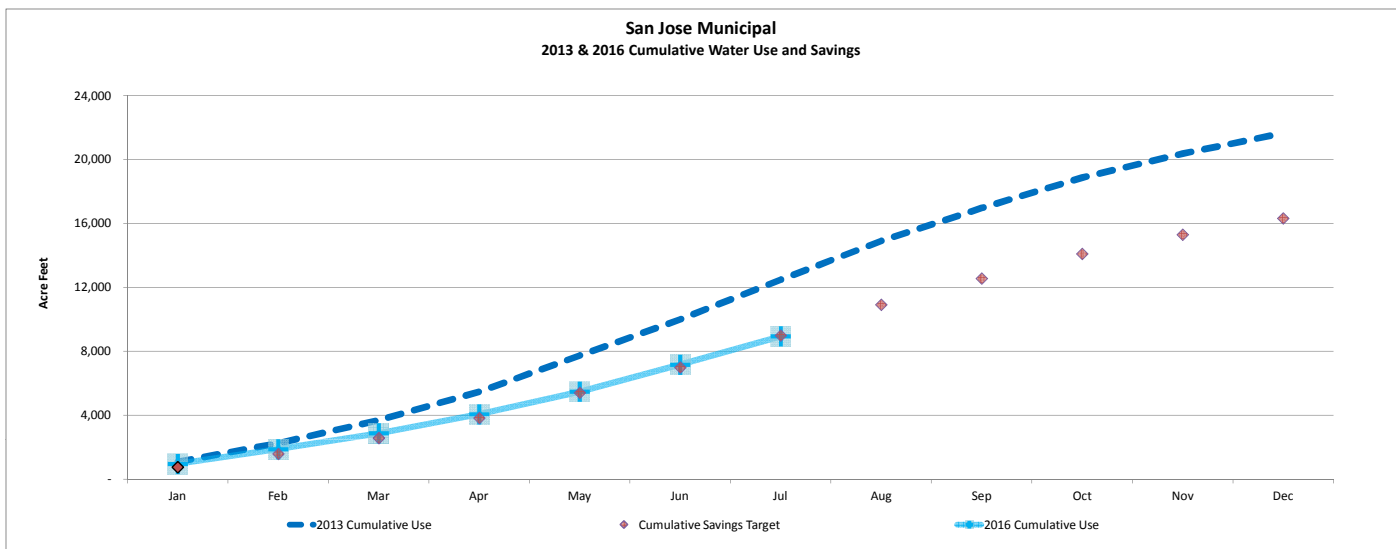
San Jose Municipal

2013 and 2016 Water Use Compared to Target

2013	Ground Water Zone 2	Ground Water Zone 5	Treated Water	SFPUC	2013 Monthly Use
Jan	35.1	25.5	728.0	286.0	1,074.6
Feb	37.2	21.8	762.0	354.0	1,175.0
Mar	46.7	25.0	1,020.0	339.0	1,430.7
Apr	67.8	30.9	1,278.0	414.0	1,790.7
May	39.9	27.9	1,653.0	540.0	2,260.8
Jun	45.2	33.2	1,691.0	493.0	2,262.4
Jul	47.3	31.4	1,854.0	560.0	2,492.7
Aug	50.8	36.5	1,750.0	574.0	2,411.3
Sep	33.6	31.3	1,530.0	466.0	2,060.9
Oct	36.3	44.0	1,380.0	461.0	1,921.3
Nov	33.4	52.0	1,039.0	379.0	1,503.4
Dec	26.4	32.5	885.0	326.0	1,269.9
Jan to Current Month Totals	319.2	195.7	8,986.0	2,986.0	12,486.9
January to December Total	499.7	392.0	15,570.0	5,192.0	21,653.7

2016	Ground Water Zone 2	Ground Water Zone 5	Treated Water	SFPUC	2016 Monthly Use
Jan	35.6	25.0	598.0	299.8	958.4
Feb	17.0	22.4	574.6	307.9	921.9
Mar	18.2	24.2	605.0	340.5	987.9
Apr	37.1	19.7	736.6	404.2	1,197.6
May	17.6	14.0	412.2	964.4	1,408.2
Jun	75.3	25.0	1,149.6	442.6	1,692.5
Jul	45.8	11.2	1,236.2	481.0	1,774.2
Aug	-	-	-	-	-
Sep	-	-	-	-	-
Oct	-	-	-	-	-
Nov	-	-	-	-	-
Dec	-	-	-	-	-
Jan to Current Month Totals	246.6	141.5	5,312.2	3,240.4	8,940.6
%Savings by Source of Supply	23%	28%	41%	-9%	28%

Cumulative % Savings Jan to December
(+) = savings
11%
16%
22%
26%
29%
28%
28%
-
-
-
-
-



Notes

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 - Not Available
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As of 8/23/2016

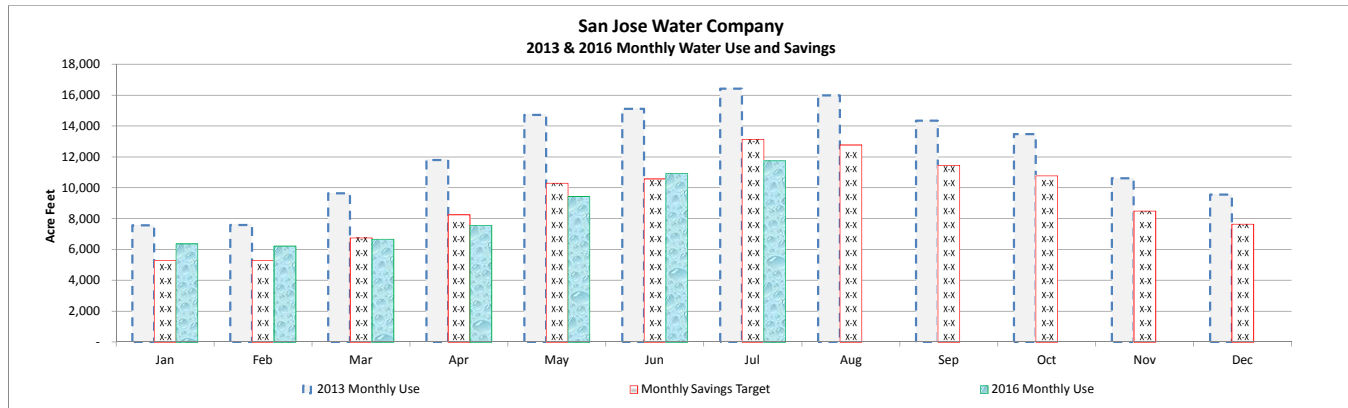
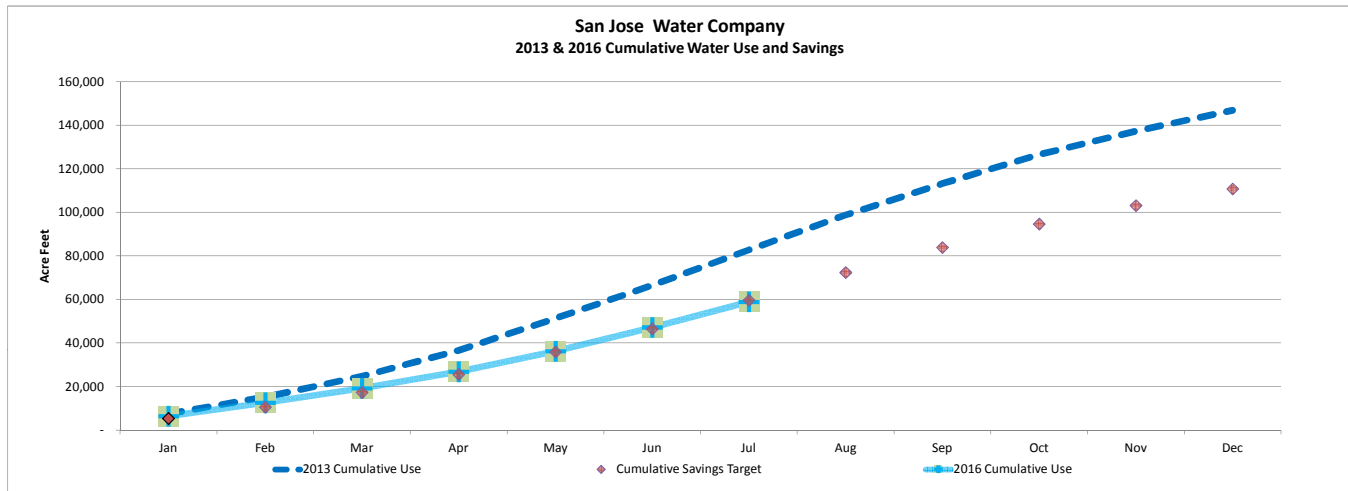
San Jose Water Company

2013 and 2016 Water Use Compared to Target

2013	Groundwater	Treated Water	SFPUC	Surface Water	2013 Monthly Use
Jan	1,731.0	4,016.1	-	1,807.1	7,554.2
Feb	1,865.6	4,328.1	-	1,384.8	7,578.6
Mar	3,807.7	5,241.9	-	594.9	9,644.4
Apr	4,293.0	7,082.4	-	422.2	11,797.6
May	5,375.9	9,033.4	-	298.6	14,708.0
Jun	5,643.2	8,959.1	-	516.2	15,118.5
Jul	7,198.0	8,610.9	-	616.3	16,425.2
Aug	6,693.0	8,694.2	-	584.1	15,971.2
Sep	5,451.9	8,352.7	-	530.6	14,335.2
Oct	5,575.0	7,394.2	-	501.5	13,470.6
Nov	4,971.4	5,323.4	-	326.0	10,620.8
Dec	5,145.5	4,205.5	-	202.8	9,553.7
Jan to Current Month Totals	29,914.4	47,272.0	-	5,640.0	82,826.4
January to December Total	57,751.1	81,242.0	-	7,785.0	146,778.1

2016	Groundwater	Treated Water	SFPUC	Surface Water	2016 Monthly Use
Jan	2,785.4	3,099.5	-	489.1	6,373.9
Feb	2,081.5	3,193.1	-	951.1	6,225.7
Mar	2,348.6	3,035.0	-	1,282.3	6,665.9
Apr	3,220.7	2,491.9	-	1,857.4	7,570.0
May	2,498.7	5,019.8	-	1,918.8	9,437.2
Jun	3,560.3	6,351.5	-	1,005.1	10,916.9
Jul	4,414.0	7,330.9	-	0.3	11,745.2
Aug	-	-	-	-	-
Sep	-	-	-	-	-
Oct	-	-	-	-	-
Nov	-	-	-	-	-
Dec	-	-	-	-	-
Jan to Current Month Totals	20,909.2	30,521.6	-	7,504.0	58,934.8
%Savings by Source of Supply	30%	35%	-	-33%	29%

Cumulative % Savings Jan to December
(+) = savings
16%
17%
22%
27%
29%
29%
29%
-
-
-
-



Notes

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 N/A = Not Applicable
 - Not Available



As of 8/23/2016

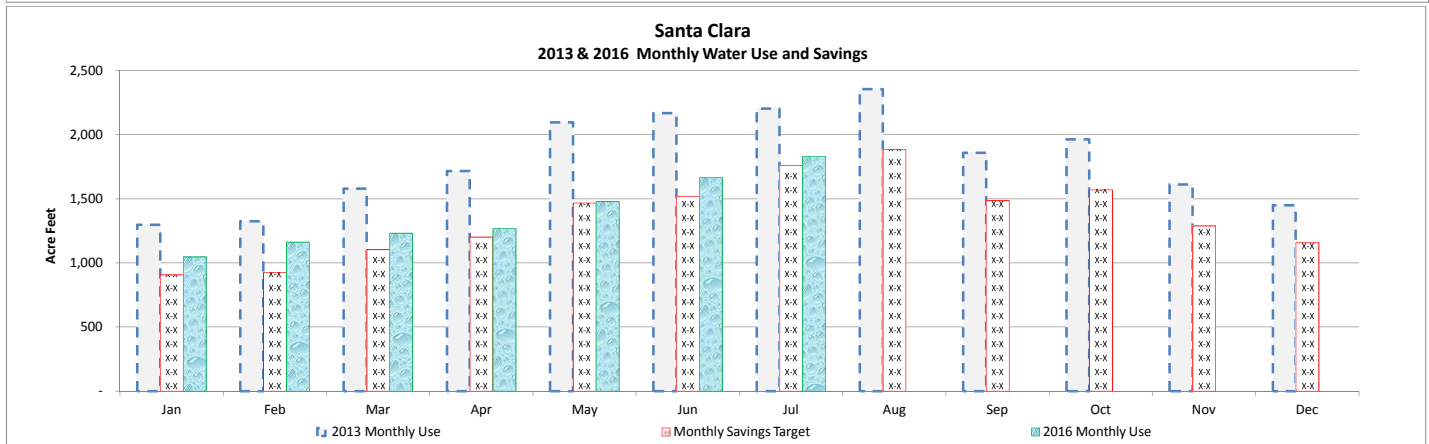
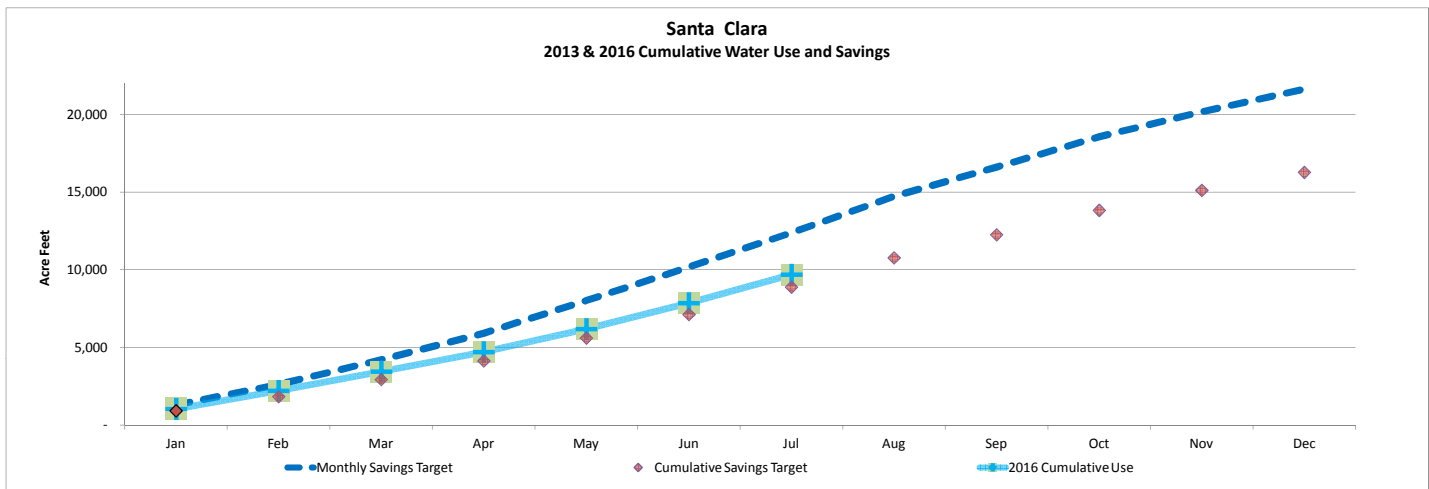
Santa Clara (City)

2013 and 2016 Water Use Compared to Target

2013	Groundwater	Treated Water	SFPUC	Other	2013 Monthly Use
Jan	802.0	287.0	207.0	-	1,296.0
Feb	735.0	370.0	219.0	-	1,324.0
Mar	951.0	428.0	199.0	-	1,578.0
Apr	1,059.0	434.0	224.0	-	1,717.0
May	1,378.0	492.0	226.0	-	2,096.0
Jun	1,520.0	467.0	180.0	-	2,167.0
Jul	1,545.0	454.0	204.0	-	2,203.0
Aug	1,688.0	450.0	217.0	-	2,355.0
Sep	1,233.0	442.0	183.0	-	1,858.0
Oct	1,301.0	428.0	234.0	-	1,963.0
Nov	1,062.0	356.0	194.0	-	1,612.0
Dec	933.0	342.0	173.0	-	1,448.0
January to Current Month Totals	7,990.0	2,932.0	1,459.0	-	12,381.0
January to December Total	14,207.0	4,950.0	2,460.0	-	21,617.0

2016	Groundwater	Treated Water	SFPUC	Other	2016 Monthly Use
Jan	623.2	232.2	192.1	-	1,047.5
Feb	660.9	295.5	205.7	-	1,162.1
Mar	737.1	270.8	223.8	-	1,231.7
Apr	619.6	424.9	223.6	-	1,268.1
May	775.3	487.1	216.3	-	1,478.7
Jun	919.8	517.5	227.5	-	1,664.8
Jul	1,204.1	402.0	225.2	-	1,831.3
Aug	-	-	-	-	-
Sep	-	-	-	-	-
Oct	-	-	-	-	-
Nov	-	-	-	-	-
Dec	-	-	-	-	-
January to Current Month Totals	5,540.0	2,630.0	1,514.2	-	9,684.2
%Savings by Source of Supply	31%	10%	-4%	-	22%

Cumulative % Savings Jan to December
(+) = savings
19%
16%
18%
20%
23%
23%
22%
-
-
-
-
-



Notes

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Recycled water not included in monthly analysis and will be analyzed separately. It is not included in the water savings target.

January to March 2015 savings targets at 20% reductions compared to the same period in 2013, and the remaining months are at the March 24, 2015 call for 30% savings.

N/A = Not Applicable

- Not Available

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As of 8/23/2016

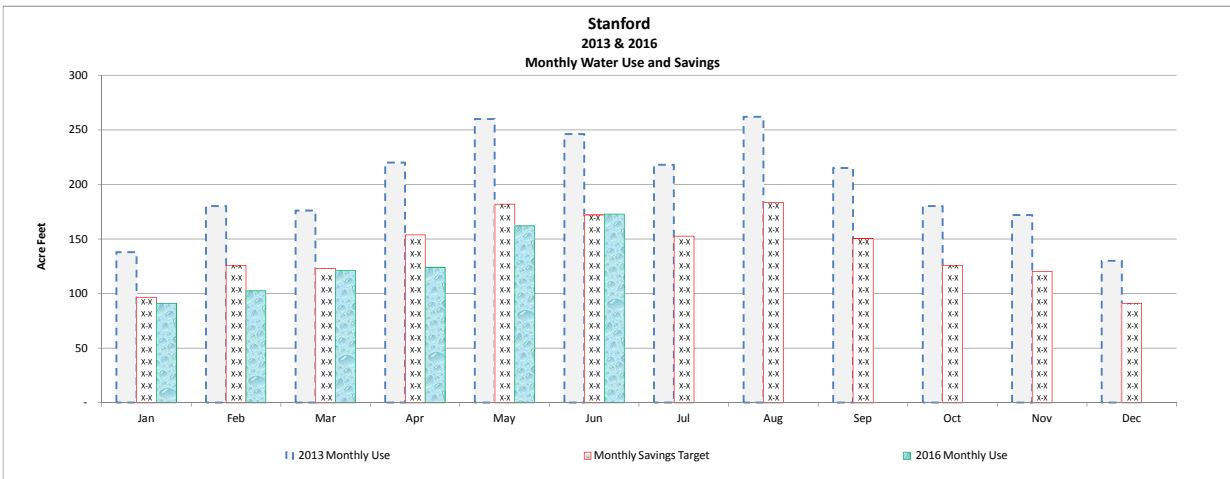
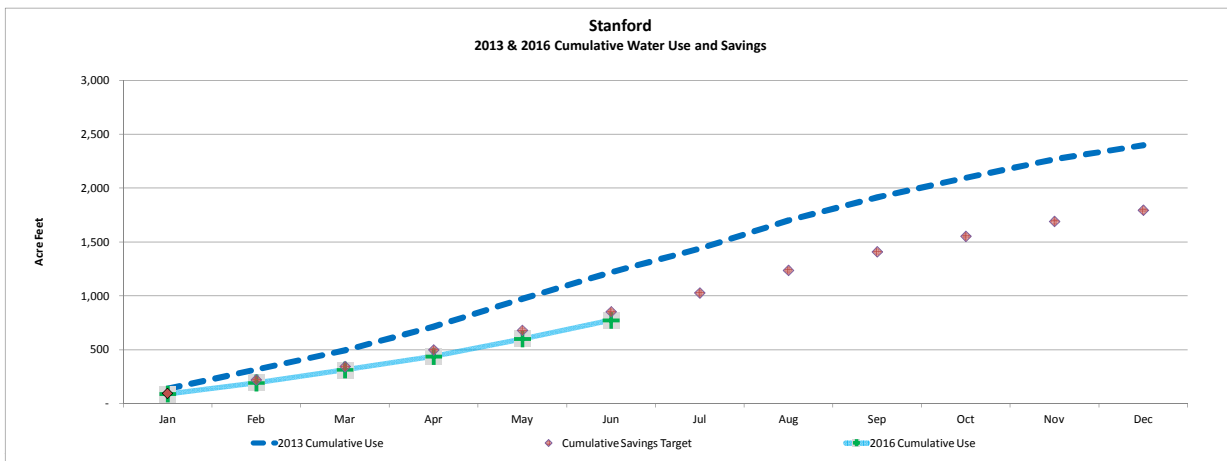
Stanford University

2013 and 2016 Water Use Compared to Target

2013	Groundwater	Treated Water	SFPUC	Other	2013 Monthly Use
Jan	-	-	138.0		138.0
Feb	-	-	180.0		180.0
Mar	-	-	176.0		176.0
Apr	-	-	220.0		220.0
May	-	-	260.0		260.0
Jun	-	-	246.0		246.0
Jul	-	-	218.0		218.0
Aug	-	-	262.0		262.0
Sep	-	-	215.0		215.0
Oct	-	-	180.0		180.0
Nov	-	-	172.0		172.0
Dec	-	-	130.0		130.0
Jan to Current Month	-	-	1,220.0	-	1,220.0
January to December Total	-	-	2,397.0	-	2,397.0

2016	Groundwater	Treated Water	SFPUC	Other	2016 Monthly Use
Jan	-	-	91.0	-	91.0
Feb	-	-	102.4	-	102.4
Mar	-	-	121.3	-	121.3
Apr	-	-	124.1	-	124.1
May	-	-	162.2	-	162.2
Jun	-	-	172.9	-	172.9
Jul*	-	-	-	-	-
Aug	-	-	-	-	-
Sep	-	-	-	-	-
Oct	-	-	-	-	-
Nov	-	-	-	-	-
Dec	-	-	-	-	-
Jan to Current Month	-	-	774.0	-	774.0
%Savings by Source of Supply			37%		37%

Cumulative % Savings Jan to December (+) = savings
34%
39%
36%
39%
38%
37%
-
-
-
-
-
-



Notes

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Recycled water not included in monthly analysis and will be analyzed separately. It is not included in the water savings target.

Potable Use only reported. SFPUC data does not match SFPUC billing records due to wheeling water to Stanford Hospital, which is in the Palo Alto service area

Variations in month to month savings: Stanford's billing cycles vary on a monthly and yearly basis, and are not consistent with the amount of calendar days in each month.

When normalized for number of days in billing cycles, decreased, Stanford reports Domestic Water Savings of above the percent saved in this report

* water use values are not available as of time of report printing

N/A = Not Applicable

- Not Available

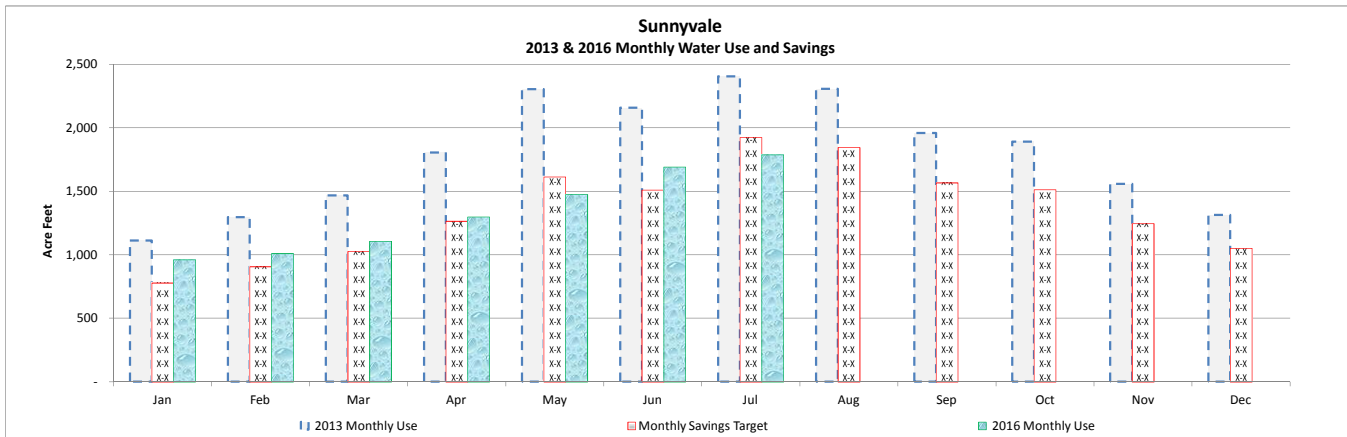
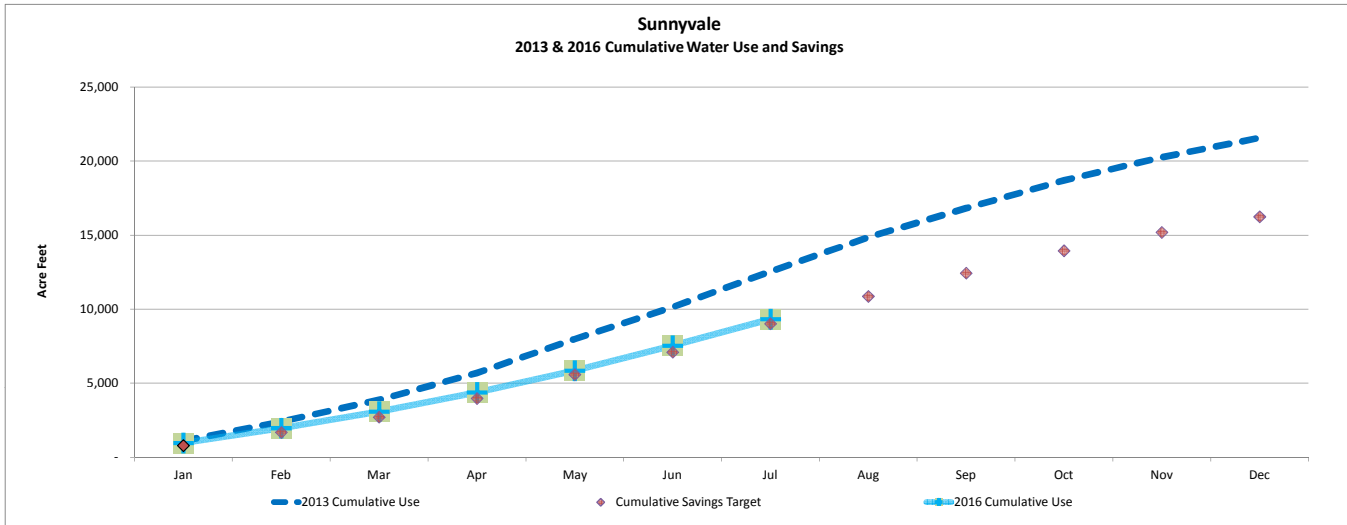
Sunnyvale , City

2013 and 2016 Water Use Compared to Target

2013	Groundwater	Treated Water	SFPUC	Surface Water	2013 Monthly Use
Jan	11.0	49.0	1,052.0	-	1,112.0
Feb	10.0	531.0	754.0	-	1,295.0
Mar	8.0	770.0	689.0	-	1,467.0
Apr	10.0	898.0	898.0	-	1,806.0
May	8.0	1,101.0	1,195.0	-	2,304.0
Jun	8.0	1,270.0	879.0	-	2,157.0
Jul	13.0	1,146.0	1,245.0	-	2,404.0
Aug	9.0	1,055.0	1,242.0	-	2,306.0
Sep	11.0	983.0	965.0	-	1,959.0
Oct	13.0	993.0	884.0	-	1,890.0
Nov	11.0	842.0	704.0	-	1,557.0
Dec	11.0	780.0	523.0	-	1,314.0
Jan to Current Month Totals	68.0	5,765.0	6,712.0	-	12,545.0
January to December Total	123.0	10,418.0	11,030.0	-	21,571.0

2016	Groundwater	Treated Water	SFPUC	Surface Water	2016 Monthly Use
Jan	9.3	385.2	566.3	-	960.9
Feb	8.6	472.3	529.0	-	1,009.9
Mar	14.1	419.4	673.5	-	1,106.9
Apr	12.3	550.5	735.0	-	1,297.8
May	14.0	685.0	776.5	-	1,475.5
Jun	16.2	731.6	944.5	-	1,692.2
Jul	13.1	766.2	1,008.6	-	1,787.9
Aug	-	-	-	-	-
Sep	-	-	-	-	-
Oct	-	-	-	-	-
Nov	-	-	-	-	-
Dec	-	-	-	-	-
Jan to Current Month Totals	87.7	4,010.1	5,233.4	-	9,331.1
%Savings by Source of Supply	-29%	30%	22%		26%

Cumulative % Savings Jan to Dec based on 2013
(+) = savings
14%
18%
21%
23%
27%
26%
26%
-
-
-
-
-
-



Notes

Current monthly water use data is preliminary and subject to change.

The initial water use reduction target for 2016 was 30%, but was changed on June 14, 2016, to 20% for 2016

Percent savings are shown in positive values where savings have been made and negative percent values where water use is higher than the base year period (2013)

Cumulative % Savings shows the target savings for all months combined at that period in time.

Recycled water not included in monthly analysis and will be analyzed separately. It is not included in the water savings target.

N/A = Not Applicable

- Not Available

SFPUC - San Francisco Public Utilities Commission Water Sales. SFPUC Drought response is a call for voluntary 10% savings



As of 8/23/2016

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Section 3. Water Conservation Measures

This section provides an overview of the water conservation measures taken by the district, municipalities and water retailers.

A. Santa Clara Valley Water District Measures

Since the district's call for water use reductions, the district has increased its water conservation outreach and education, and increased rebates for many of its programs, including:

- Landscape conversion rebate program: rebates were temporarily increased to \$2 per square foot (back to \$1 per square foot as of July 1, 2016).
- Irrigation hardware upgrades rebate program: several irrigation hardware rebates were increased.
- Graywater laundry to landscape rebate program: up to \$200 per residential site for properly connecting a clothes washer to a graywater irrigation system.
- Commercial rebate programs: several rebates were temporarily increased for commercial facilities, including the rebate for connectionless food steamers, commercial high-efficiency clothes washers and the custom/measured rebate (As of July 1, 2016, some rebates are back to the original amounts).

In addition, the district recently initiated a Safe, Clean Water and Natural Flood Protection Program to provide research grants to study and pilot-test new and innovative water conservation programs and efficient technologies. The program will provide \$1 million over a 10 year period.

To date, \$18.5 million has been incurred for drought response activities. In addition, the board and the CEO have authorized an additional \$27.3 million in budget adjustments. The breakdown is as follows:

- Conservation Programs - \$16.4 million
- Outreach - \$2.4 million
- Imported Water - \$8.5 million for purchased water and reverse flow consultant.

B. Water Retailer Measures

Local water retailers responded to the district's call for savings in various ways. Several retailers called for 20 percent reductions and activated or adopted water use restrictions. Most water retailers took additional action since August 2014 to respond to the State Board's Emergency Regulations that were adopted in July 2014. Nearly every water retailer increased their outreach and education efforts. In addition, water retailers implemented additional actions in response to the governor's April 1, 2015, Executive Order and the State Board's expanded drought-related emergency regulations adopted March 17, 2015. Two summits, one with the retailers, one with elected officials, have been held to facilitate increased water conservation and water use saving efforts and increase coordination to meet the 30 percent reduction target. A common theme between the two summits was that messaging and policy development needs to be consistent and coordinated. See Table 9 on next page for a summary of actions taken to date.

TABLE 9: WATER RETAILER WATER USE REDUCTION MEASURES THROUGH JULY 2016

Water Retailer	Retailer Call for Water Use Reduction	Retailer Water Use Restrictions
California Water Service	20 percent	Enacted Schedule 14.1 restrictions and allocations
Gilroy	20 percent	Permanent restrictions plus Stage 1
Great Oaks	20 percent	Enacted Schedule 14.1 restrictions and allocations
Milpitas	20 percent	Permanent restrictions plus additional measure, including allocations. Urgency Drought Ordinance adopted and in force.
Morgan Hill	20 percent	Permanent restrictions plus Level 1 Water Supply Shortage Condition.
Mountain View	10 percent	Permanent restrictions plus Stage 1.
Palo Alto	10 percent	Palo Alto has implemented all measures included in Stage I of its Water Shortage Contingency Plan
Purissima Hills Water	10 percent	Permanent restrictions
San Jose Municipal Water	20 percent	20 percent water conservation target plus 3-days a week landscape irrigation schedule
San Jose Water Company	20 percent	Enacted Schedule 14.1 restrictions and allocations. 3 days per week landscape irrigation schedule
Santa Clara	20 percent	Permanent restrictions
Stanford	10 percent	N/A
Sunnyvale	15 percent	Permanent restrictions plus Stage 1

C. Other Municipality Measures (non retailer cities and the County)

Some of the cities or towns in Santa Clara County do not have a municipal water system. They are served by investor owned water retail agencies. However, many of them are moving forward with their own actions to influence water use reductions in their communities.

TABLE 10: MUNICIPALITY NON-RETAILER ACTIONS

<u>City (non municipal water retailer)</u>	<u>Action</u>	<u>Outreach</u>
Campbell, City of	Drought Ordinance updated to include enforcement provisions and drought stages. Calling for 20%.	Water saving tips on website and in city newsletter.
Saratoga, City of	Drought Resolution calls for 30 percent. Updated Water Efficient Landscape Ordinance. Will call for 20% in September.	Water saving tips on website, with links to SJWC and SCVWD water conservation and rebate programs.
Los Altos, City of	Drought Resolution calls for 32 percent.	Resolution includes voluntary measures consistent with model ordinance
Los Altos Hills, Town of	Water efficient landscaping regulations in place. Environmental Initiatives Committee reviewing potential additional water saving measures.	Support SCVWD and retailer efforts. Water conservation information on Town website.
Los Gatos, Town of	Drought Ordinance adopted and in force, calls for 20 percent.	Water saving tips and information on SCVWD water conservation rebate programs on website.
Cupertino	Drought Ordinance adopted and in force. Resolution calls for 30 percent.	Drought Resources page on city website, banners with watering schedule and drought messages in City parks, drought signs on City lawns. Matching turf removal rebate.
Monte Sereno, City of	Water conservation and landscaping regulations in place.	City Council received information detailing SJW's Schedule 14.1 restrictions.

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Section 4. Drought Response Strategies

The district's comprehensive drought response is being implemented through fifteen strategies grouped into four general categories: (A) water supply and operations; (B) water use reduction; (C) drought response opportunities; and (D) administrative and financial management.

A. Water Supply and Operations

1. Secure imported water supplies.

This strategy includes working with state and federal project operators: California Department of Water Resources (DWR) and U.S. Bureau of Reclamation (Reclamation), and contractors of the State Water Project (SWP) and Central Valley Project (CVP), to secure the district's 2015 contract carryover supplies and 2016 contract allocations. It also includes supporting initiatives to control Delta salinity; providing for return of water from the Semitropic Water Bank; determining the availability of supplemental water transfers and imported water carryover for 2016; and coordinating with San Francisco Public Utilities Commission (SFPUC) on drought impacts to the Hetch-Hetchy Project.

2. Manage surface water and groundwater supplies.

To maximize water supply reliability and protect groundwater, this strategy optimizes distribution of limited local and imported supplies, including deliveries to the three water treatment plants, operation of district reservoirs and the groundwater recharge system, and deliveries to untreated surface water users. Given current water supply conditions, ongoing communication is required with regulatory agencies and other stakeholders regarding changing conditions in reservoirs, creeks and recharge ponds, as well as working with untreated surface water customers to establish alternate sources of supply.

3. Optimize treated water quality and availability.

This strategy focuses on optimizing treatment plant operations and source water supplies to meet drinking water quality and reliability objectives, in coordination with the district's retail treated water contractors. It includes continuing to meet treated water quality objectives despite drought-induced water quality conditions in the Delta this year. This strategy also includes working with SFPUC to use the Hetch-Hetchy Intertie when necessary to meet treated water schedules.

B. Water Use Reduction

4. Reduce 2016 water use by 20 percent compared to 2013 water use

This strategy includes promoting short-term and long-term actions to meet the 20% water use reduction target called for by the Board on June 14, 2016, as well as tracking progress towards meeting that target. Activities include promoting the district's water conservation programs; coordinating with retail water agencies, municipalities and the County of Santa Clara on drought response ordinances and programs; and implementing a public outreach and education campaign.

5. Ensure that district facilities set a model for water conservation.

Many water conservation measures have been implemented at district facilities in past years, including low flow toilets, dual flush valves in high use areas, low flow aerators on faucets in restrooms and break areas, low flow devices in showers, drought tolerant landscaping and/or native vegetation, and Calsense intelligent irrigation controllers for landscaping. In 2013, the district reduced water use by 11% (10.8 million gallons) compared to 2012 (12.1 million gallons). In 2015, district facilities used 43 percent less water than in 2013.

6. Support customers and key stakeholders to minimize adverse drought impacts.

This strategy includes providing assistance to retail water agencies for their outreach, operations, and conservation programs. The district meets regularly with the Water Retailers and subcommittees (Water Supply, Treated Water, Water Quality, Groundwater, Conservation, Communication and Ad Hoc Drought Response Subcommittees). Assistance is also being provided to surface water customers, agricultural water users, municipalities, and others as they implement drought response. The Landscape Committee is convened to discuss drought response as it affects landscape businesses. This strategy includes tracking and reporting customer and stakeholder requests.

C. Drought Response Opportunities

7. Leverage community awareness to advance long-term conservation measures.

This strategy includes measures to increase participation in the district's long-term water conservation programs. It also identifies, evaluates and supports new innovative conservation measures, including Safe Clean Water (SCW) Water Conservation Research Grant efforts, which are expected to be implemented in calendar year 2016. Staff is also investigating opportunities for advancing sustainable, long-term savings through land use initiatives, where feasible.

8. Accelerate recycled water program development and implementation.

The current drought has raised interest in expediting implementation of both non-potable and potable reuse components of the district's long-term water supply plans by existing and potential recycled water partners, legislators, water users and others. Staff is identifying and preparing plans for high-priority recycled/purified water projects (up to 45,000 acre-feet per year) to help alleviate water supply shortages if the current drought continues; pursuing regulatory proposals to provide for safe implementation of indirect and direct potable reuse projects; and completing master planning of all recycled water efforts. Other aspects of this strategy include support and pursuit of legislative proposals to streamline the implementation of recycled water projects and provide potential funding.

9. Leverage opportunity to maintain uniquely accessible district facilities.

The current drought has raised interest in expediting implementation of both non-potable and potable reuse components of the district's long-term water supply plans by existing and potential recycled water partners, legislators, water users and others. Staff is identifying and preparing plans for high-priority recycled/purified water projects (up to 45,000 acre-feet per year) to help alleviate water supply shortages if the current drought continues; pursuing regulatory proposals to provide for safe implementation of indirect and direct potable reuse projects; and completing master planning of all recycled water efforts. Other aspects of this strategy include support and pursuit of legislative proposals to streamline the implementation of recycled water projects and provide potential funding.

10. Leverage opportunity to further development of the district's workforce.

Effective drought response requires reassignment of staff resources to meet current needs, and this reassignment also creates opportunity for staff to gain new knowledge, skills and abilities. This strategy includes establishing processes for fair and expedited reassignment of staff resources to assist with implementation of drought response so that the district is better able to serve the public this year and in future years through workforce development.

11. Advance community knowledge, awareness, and understanding of the water supply system and services provided by the district.

This strategy includes efforts to expand outreach communication and engagement with the general public and working even more closely with media to convey drought and water conservation messages. This also provides an opportunity to expand outreach to key stakeholders (e.g., city councils) and regional groups.

D. Administrative and Financial Management

12. Secure Federal and State legislative support to offset drought impacts and accelerate conservation and recycling programs.

Staff is tracking a number of State and federal legislative initiatives aimed at providing drought relief and funding to offset costs of drought response and accelerate water supply and water use efficiency projects. This strategy focuses on providing input to legislators and implementing agencies on drought impacts and needs, as well as grant application requirements to maximize funding opportunities for district and customer projects and programs. The strategy also includes pursuing funding and reimbursements for district projects and programs and for collaborative opportunities that assist customers with offsetting financial impacts of the drought.

13. Leverage Emergency Operations Center (EOC) to assist in supporting drought efforts.

Soon after the Governor's January 17, 2014, Declaration of Drought Emergency, the district activated its EOC at Level 1 to facilitate response to drought-status inquiries from the State

Operations Center (SOC), Coastal Regional Operations Center (REOC) and the local Santa Clara County Operational Area (OA). Emergency resource requests may be requested through the EOC, as determined by the district's EOC Director, and the EOC also helps track drought-related costs for potential reimbursement. The EOC communication structure provides opportunity for additional outreach to policy and staff representatives of local municipalities, the county and emergency response providers about the need to achieve the 30% water use reduction target and to promote water conservation.

14. Adjust district resource allocations necessary to respond to drought.

This strategy includes identifying, tracking and processing budget adjustments and other adjustments of resources as needed to support overall implementation of drought response. In addition to staff resource adjustments discussed in Strategy #10, drought response is expected to include increased/adjusted budgets for an effective water use reduction campaign, additional pumping and water treatment costs, extraordinary maintenance projects, and supplemental imported water. The strategy includes clearly identifying the schedule impacts and other impacts of these resource adjustments as non-drought-related work is delayed or removed from project work plans.

15. Support the Board of Directors.

This strategy includes ensuring that the Board is provided timely and accurate information on current water supply conditions and drought response to support their efforts and linkages to the community. This strategy includes support for the Board's Ad Hoc Water Conservation Committee and Ad Hoc Recycled Water Committee to discuss drought-related opportunities to advance these important programs. It also includes ensuring that Board advisory committees are informed of current water supply, drought response measures, and implementation of the 2016 water use reduction campaign. Board updates are provided monthly on current water supply and drought response, including progress toward achieving the 20% water use reduction target.

Section 5. Data Collection Methodology

This section describes how water use data is collected by the district for the monthly drought response status report.

A. Water Use Data Disclaimer

Due to the need to communicate retailer water use data and savings progress in a timely manner, water use data in this report is currently being self reported by the retailer and is subject to further QA/QC and verification, may not match district billing records and is therefore subject to change. The intent of this report is to illustrate a general month by month and cumulative trend in water use and savings efforts toward the goal of a 20 percent reduction in water use compared to the same period in 2013. Below is how the district typically would collect and store water use data.

B. Treated Water Data

The district measures the volume of treated water delivered to its treated water customers (major water retailers). Monthly treated water deliveries are measured by meters (scheduled, contract, non-contract, and total delivered) for each and all water retailers (contractors). Meters are recalibrated/maintained regularly and may error up to 2 percent. Otherwise, the water use values represent actual billed amounts. For this report, treated water data is being reported by retailers.

C. Groundwater Data

The groundwater data collection and reporting process includes sending a water production statement to the customer for them to complete and report their water use. Once the completed production statement data is reviewed and accepted by the district, the district considers the data to be validated. This process which was developed in consideration of the requirements of the District Act, results in at least a 6 week delay in groundwater production reporting. For this report, groundwater data is being reported by retailers.

D. SFPUC Water Data

The San Francisco Public Utilities Commission (SFPUC) has eight common retail water customers with the district. SFPUC reports monthly water use directly to the district (historically that data was provided to BAWSCA, who in turn provided it to the district). Five of the common customers have their metered deliveries measures by SFPUC at the beginning of the month. Two of the customers (Stanford and Palo Alto) have their meters read on the 18th or 19th, and therefore their monthly data is split between two months. For the purposes of this report, water use for the month, will be that water used as measured by the following month (i.e. March water use is water use measured in April). It should be noted that the SFPUC provides monthly billing reports labeled as Monthly Water Sales. That data contains water sold and used in the previous month (i.e. March Water Sales report contains February use data for the

many of the customers, including the five common customers whose meters are read on the first of March, for instance).

For this report, groundwater data is being reported by retailers.

E. Surface Water Data

For the purpose of this report, water use data represents use by large water retailers and does not include surface water deliveries by the district to its non-potable surface water customers. The only surface water use included in this report is from San Jose Water Company, which has surface water rights. San Jose Water Company has its own water treatment plant for their surface water.

F. Recycled Water Use

Historically, recycled water use has been tracked in-county by sales at the treatment plants. However, for the purposes of this report, an effort is being made to collect this data at the water retailer level. This requires even more coordination and participation with the recycled water retailers. Many of the water retailers do not read their meters monthly and therefore their recycled water use is not reported in this monthly report. It is important to know how county water savings may be accommodated by increases in water use. If the data can be collected monthly it will be reported as such, otherwise it will be reported in the semiannual and annual reports, as available.



A monthly assessment of trends in water supply and use for Santa Clara County, California

Outlook as of September 1, 2016

Santa Clara County residents and businesses reduced water use by 26% in July 2016 compared to July 2013. This brings the cumulative 2016 water savings through July to 28% compared to the same period of 2013. Realizing parts of the state were better off than others in terms of water supply, the State Water Resources Control Board adopted an updated Emergency Regulation in May that allowed water retailers throughout the state to determine their individual conservation standards based on local conditions.

At its June 14 meeting, the District’s Board of Directors (Board) lowered its water use reduction target for the period extending through January 2017, but emphasized that residents should continue their efforts to conserve in this ongoing drought. The Board also called for local water providers to continue to institute mandatory measures, as needed, to reach the 20% target, and called for restrictions on watering schedules to a maximum of three times a week, up from the two day a week schedule most areas of the county have had in place since the spring of 2015.

Despite recent issues with low San Luis Reservoir storage and algae problems, groundwater recharge operations are expected to meet or exceed the 2016 recharge plan which entails more recharge than in normal years. The increased recharge capability can be attributed to pond cleaning and grooming efforts performed when ponds were empty in 2014 and 2015 due to drought conditions.

Weather



Rainfall in San Jose

- Month of August = 0 inches
- The average daily high temperature for August was 79.7 degrees Fahrenheit. Temperatures were slightly below normal for the month

Local Reservoirs



- Total September 1 storage = 76,042 acre-feet
 - » 82% of 20-year average for that date
 - » 45% of total capacity
 - » 62% of restricted capacity storage (169,009 acre-feet total storage capacity limited by seismic restrictions to 122,924 acre-feet)
- Approximately 1,770 acre-feet of Imported Water delivered into local reservoirs during August 2016
- Total releases to streams (local and imported water) during August was 8,290 acre-feet

Groundwater



- Groundwater (GW) Storage: End of 2016 storage is predicted to fall within Stage 2 (Alert) of the Water Shortage Contingency Plan.

	Santa Clara Subbasin		Llagas Subbasin
	Santa Clara Plain	Coyote Valley	
August managed recharge estimate (AF)	11,300	900	3,300
January to August managed recharge estimate (AF)	70,700	7,700	17,000
January to August managed recharge, % of 5-year average	259%	110%	133%
July pumping estimate (AF)	7,700	1,000	4,400
January to July pumping estimate (AF)	35,000	5,600	20,600
January to July pumping, % of 5-year average	72%	92%	92%
GW index well level compared to last August	Increase	Increase	Increase

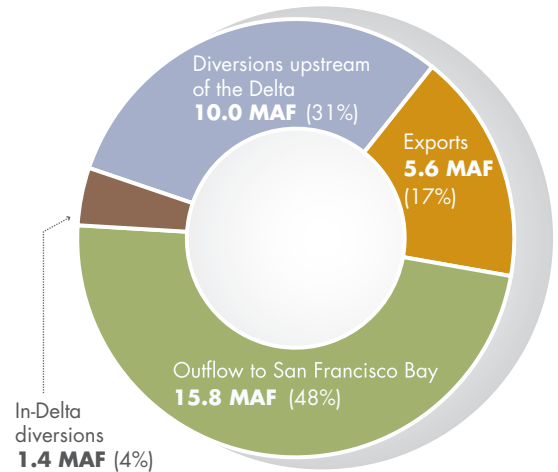
AF = acre-feet

Imported Water



- 2016 State Water Project (SWP) and Central Valley Project (CVP) allocations:
 - » 2016 SWP allocation: 60% = 60,000 acre-feet
 - » 2016 CVP allocations South-of-Delta: Municipal and Industrial water service contractors: 55% of historic use = 71,500 acre-feet, Agriculture water service contractors: 5% = 1,655 acre-feet
- Reservoir storage information, as of August 31, 2016:
 - » Shasta Reservoir at 69% of capacity (109% of average for this date)
 - » Oroville Reservoir at 52% of capacity (80% of average for this date)
 - » San Luis Reservoir at 15% of capacity (36% of average for this date)
- District's Semitropic groundwater bank reserves: An estimated 190,339 acre-feet as of August 31, 2016.
- Estimated Hetch Hetchy deliveries to Santa Clara County:
 - » Month of July = 4,763 acre-feet
 - » Year-to-date = 28,751 acre-feet
 - » Five-year average is 48,700 acre-feet

**Delta Watershed Diversions and Outflow
Typical Annual Balance
Average Years (32.8 MAF)**



Treated Water



- Below average demands of 11,823 acre-feet delivered in August
- This total is 92% of the five-year average for the month of August
- Year-to-date = 61,880 acre-feet or 79% of the five-year average

Conserved Water

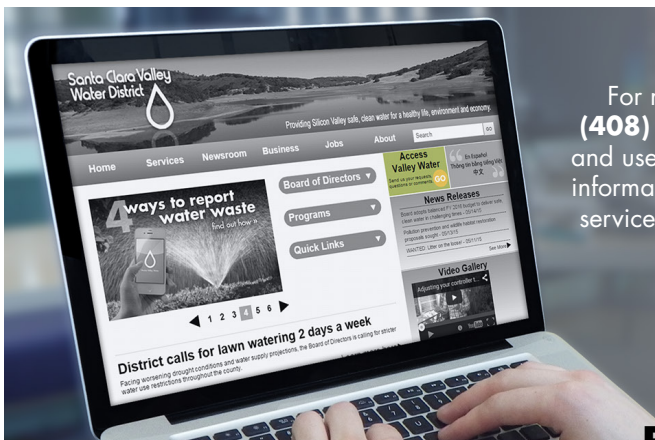


- Saved 69,000 acre-feet in FY16 from long-term program (baseline year is 1992)
- Long-term program goal is to save nearly 72,000 acre-feet in FY17
- The Board has called for a 20% reduction and a limit of three days per week for irrigation of ornamental landscape with potable water
- Achieved a 28% reduction in water use through the first seven months of 2016, compared to 2013

Recycled Water



- Estimated August 2016 production = 2,500 acre-feet
- Estimated year-to-date through August = 12,640 acre-feet or 97% of the five-year average
- Silicon Valley Advanced Water Purification Center produced an estimated 3.9 billion gallons (12,000 acre-feet) of purified recycled water since March 25, 2014. The purified water is blended with existing tertiary recycled water for South Bay Water Recycling Program's customers



CONTACT US

For more information, contact **Customer relations** at **(408) 630-2880**, or visit our website at valleywater.org and use our **Access Valley Water** customer request and information system. With three easy steps, you can use this service to find out the latest information on district projects or to submit questions, complaints or compliments directly to a district staff person.



To get eNews, text **VALLEYWATER** to **22828**.

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- Groundwater Storage: Total storage at the end of 2016 is predicted to fall within Stage 2 (Alert) of the Water Shortage Contingency Plan.
- Santa Clara Plain:
 - The August managed recharge estimate is 11,300 acre-feet. The year-to-date managed recharge estimate is 70,700 acre-feet, or 259% of the five-year average.
 - The July groundwater pumping estimate is 7,700 acre-feet. Estimated groundwater pumping between January and July is 35,000 acre-feet, or 72% of the five-year average.
 - The groundwater level in the Santa Clara Plain (San Jose) index well is about 22 feet higher than last August and 13 feet higher than the five-year average.
- Coyote Valley:
 - The August managed recharge estimate is 900 acre-feet. The year-to-date managed recharge estimate is 7,700 acre-feet, or 110% of the five-year average.
 - The July groundwater pumping estimate is 1,000 acre-feet. Estimated groundwater pumping between January and July is 5,600 acre-feet, or 92% of the five-year average.
 - The groundwater level in the Coyote Valley index well is about 21 feet higher than last August and 11 feet higher than the five-year average.
- Llagas Subbasin:
 - The August managed recharge estimate is 3,300 acre-feet. The year-to-date managed recharge estimate is 17,000 acre-feet, or 133% of the five-year average.
 - The July groundwater pumping estimate is 4,400 acre-feet. Estimated groundwater pumping between January and July is 20,600 acre-feet, or 92% of the five-year average.
 - The groundwater level in the Llagas Subbasin (Morgan Hill) index well is about 26 feet higher than last August and 5 feet higher than the five-year average. Data from the San Martin index well was not available in August.

Contact Us For questions, contact
Vanessa De La Piedra at (408) 630-2788

Groundwater Recharge

The estimated managed recharge for August 2016 is higher than the average of the last five years (2011-2015) for the Santa Clara Plain and Llagas Subbasin and slightly lower for Coyote Valley. Managed recharge is dependent on a number of factors, including water availability, regulatory requirement, and facility maintenance schedules. Figures 1, 2, and 3 compare monthly managed recharge through August 2016 to the five-year average.

Figure 1 - Estimated Managed Recharge in the Santa Clara Plain

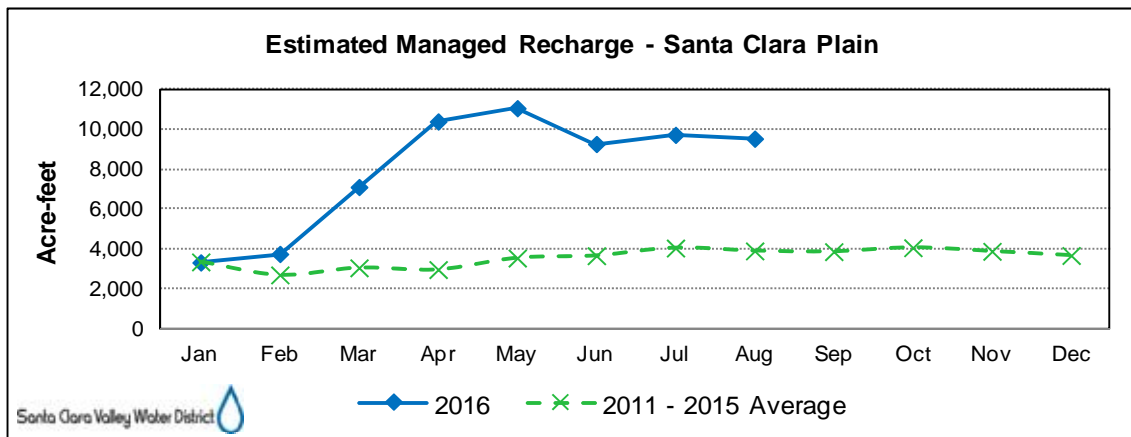


Figure 2 - Estimated Managed Recharge in the Coyote Valley

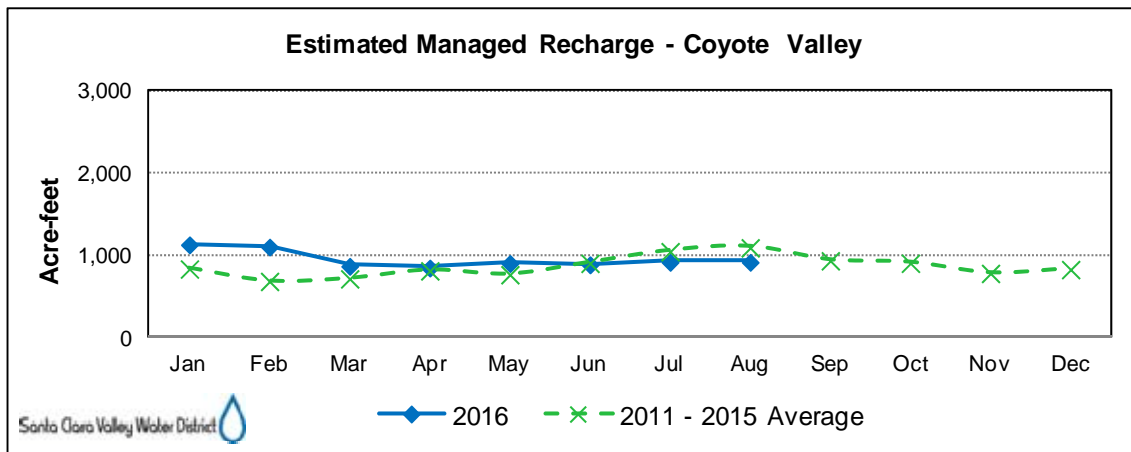
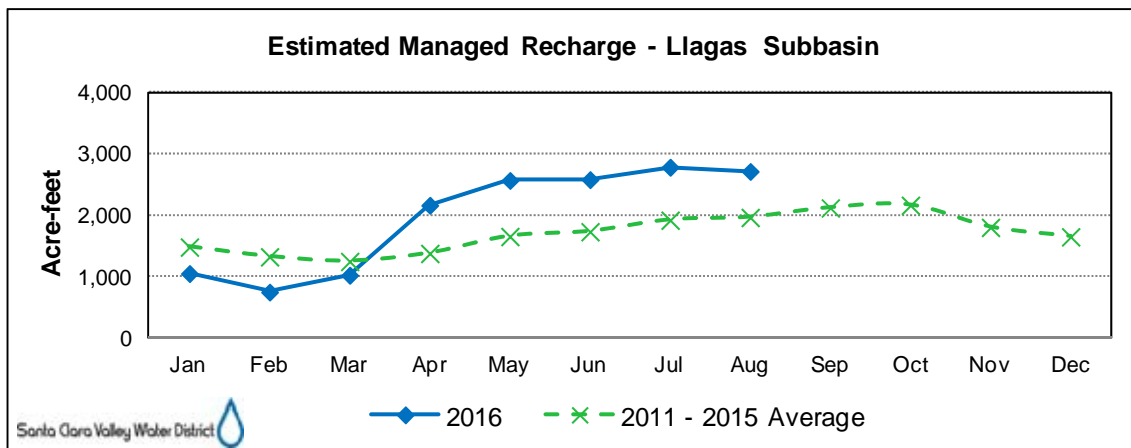


Figure 3 - Estimated Managed Recharge in the Llagas Subbasin



Groundwater Pumping

The estimated pumping for July 2016 (the most recent month with pumping data available from large pumpers) is lower than the average of the last five years (2011-2015) for the Santa Clara Plain, Coyote Valley, and Llagas Subbasin. Figures 4, 5, and 6 compare monthly estimated groundwater pumping through July 2016 to the five-year average.

Figure 4 – Estimated Santa Clara Plain Pumping

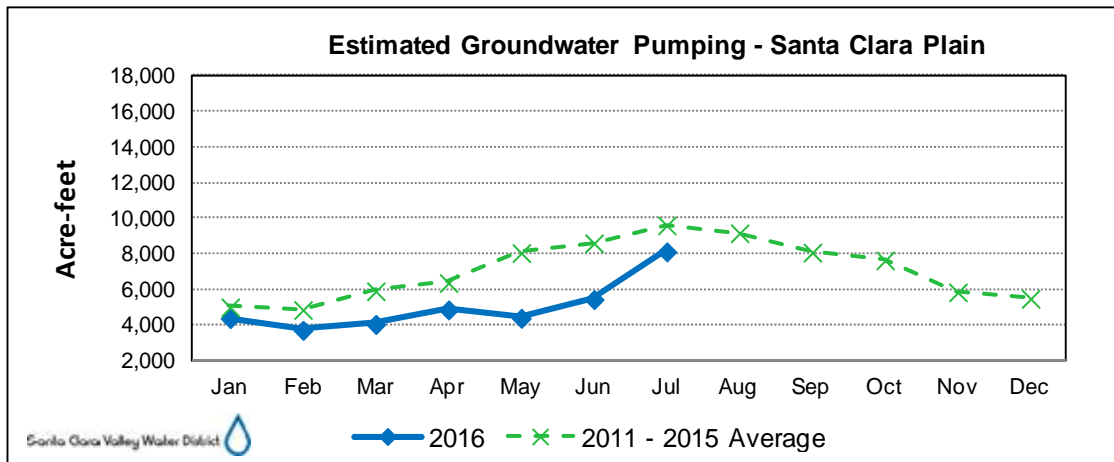


Figure 5 – Estimated Coyote Valley Pumping

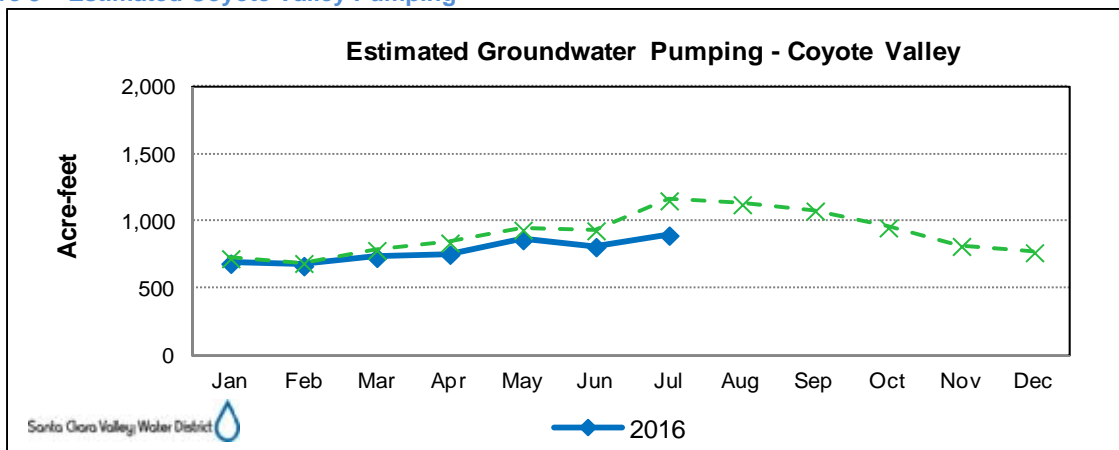
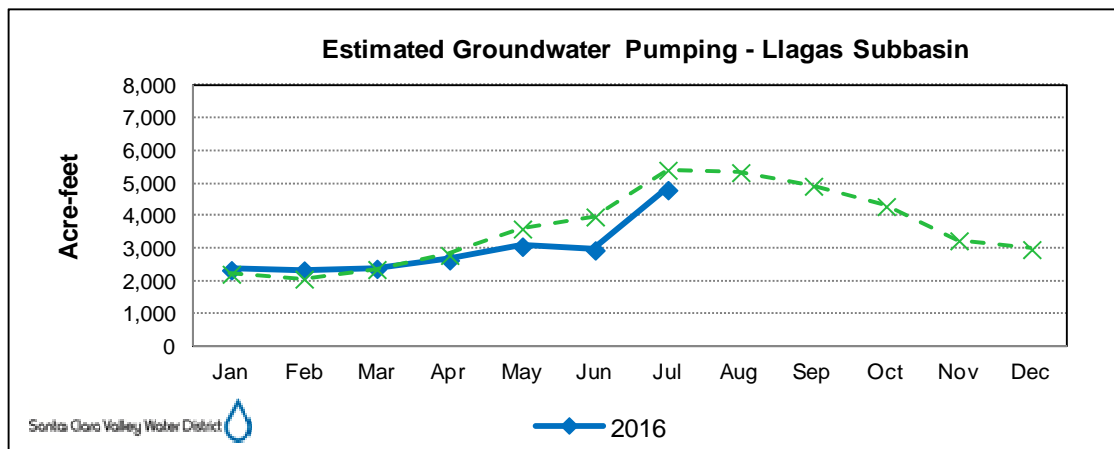


Figure 6 – Estimated Llagas Subbasin Pumping

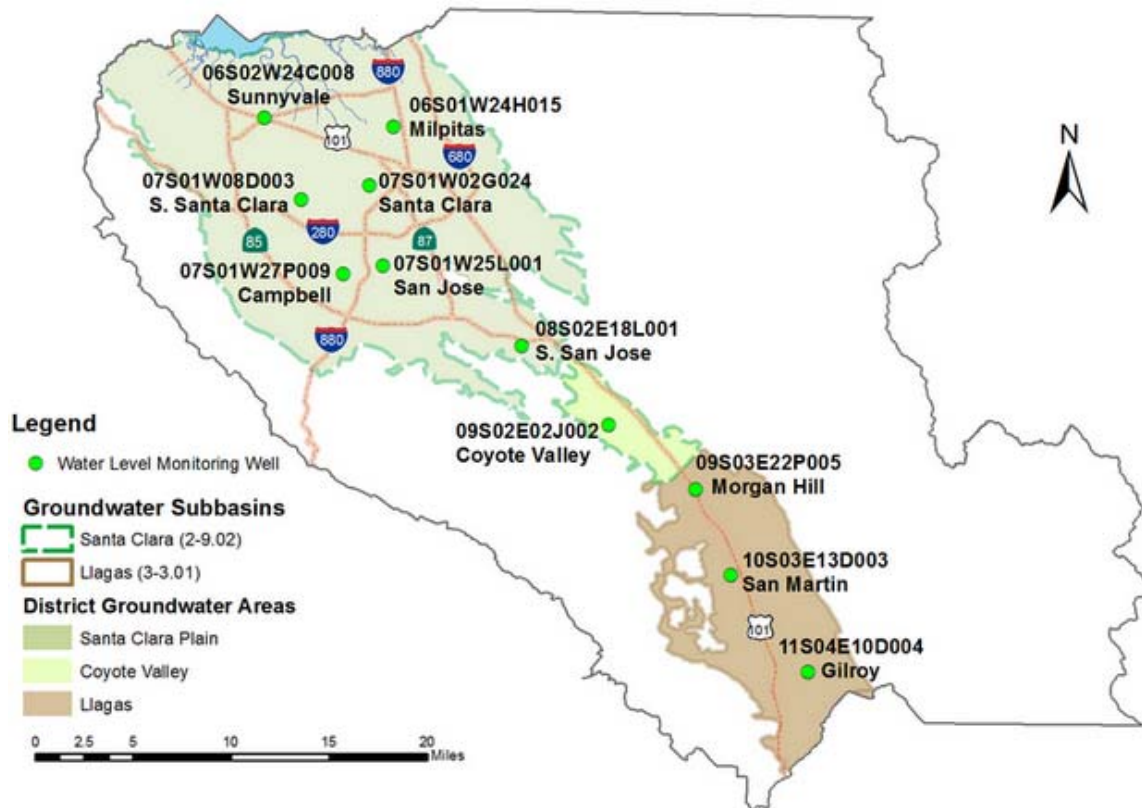


Groundwater Levels

Groundwater levels at selected monitoring wells (Figure 7) are compared to the groundwater levels of August 1987 (a dry year), August 2004 (a normal year), and the five-year average of August measurements for 2011-2015. This information is presented in individual well groundwater hydrographs in Figures 8 through 18.

August 2016 groundwater levels were higher than July levels in seven index wells and were lower in four index wells. From August 2015 to August 2016, all 11 wells showed water level increases ranging from 6 to 84 feet. The August 2016 levels were higher than August 2004 levels by 4 to 48 feet in nine wells, lower by 15 feet in one well, and one well lacks 2004 data. August 2016 levels were higher than the five-year average of August measurements in eight wells by 5 to 66 feet, lower than the five-year average in two wells by 3 to 5 feet, and about the same in one well. August 2016 groundwater levels were higher than August 1987 levels in 10 index wells and lower in one well.

Figure 7 - Location of Selected Monitoring Wells



September 2016 Groundwater Condition Report

Figure 8 - Milpitas Well Hydrograph

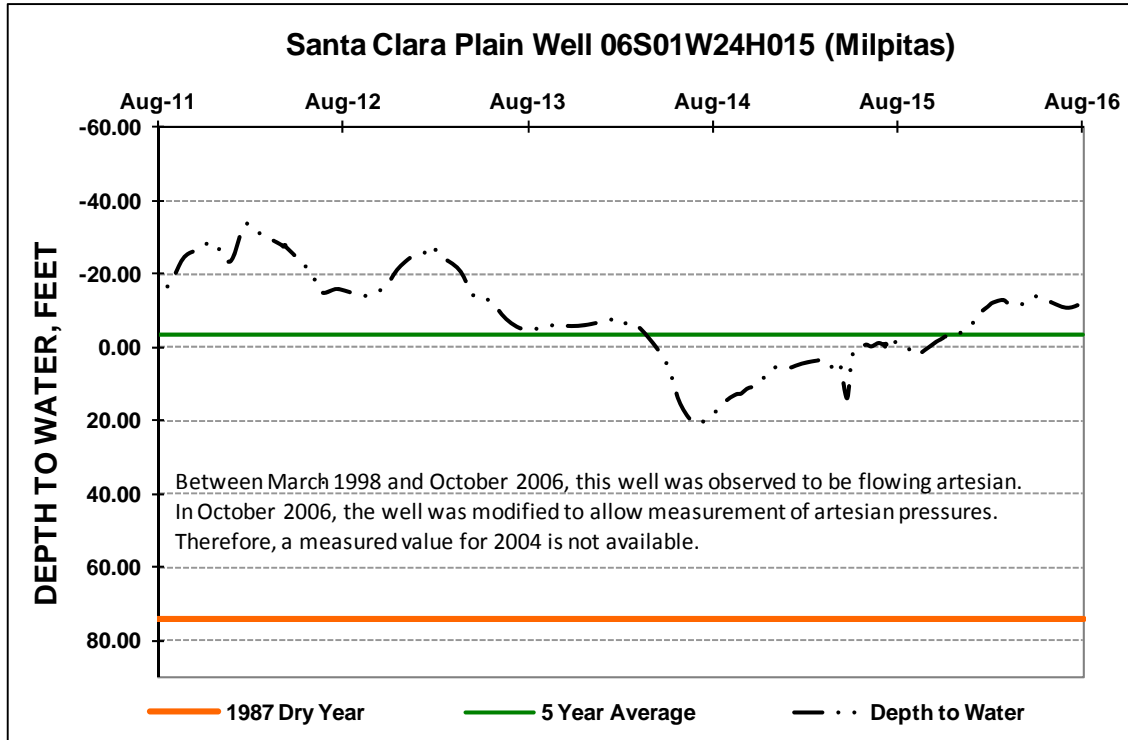


Figure 9 – Sunnyvale Well Hydrograph

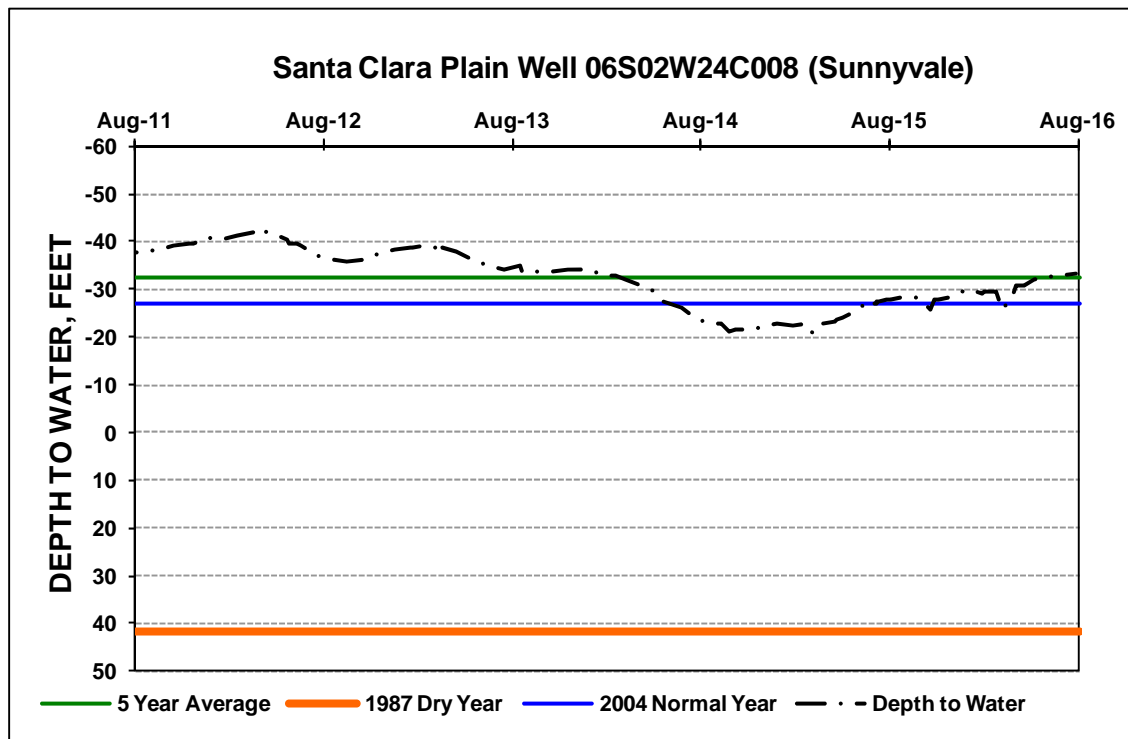


Figure 10 - San Jose Well Hydrograph

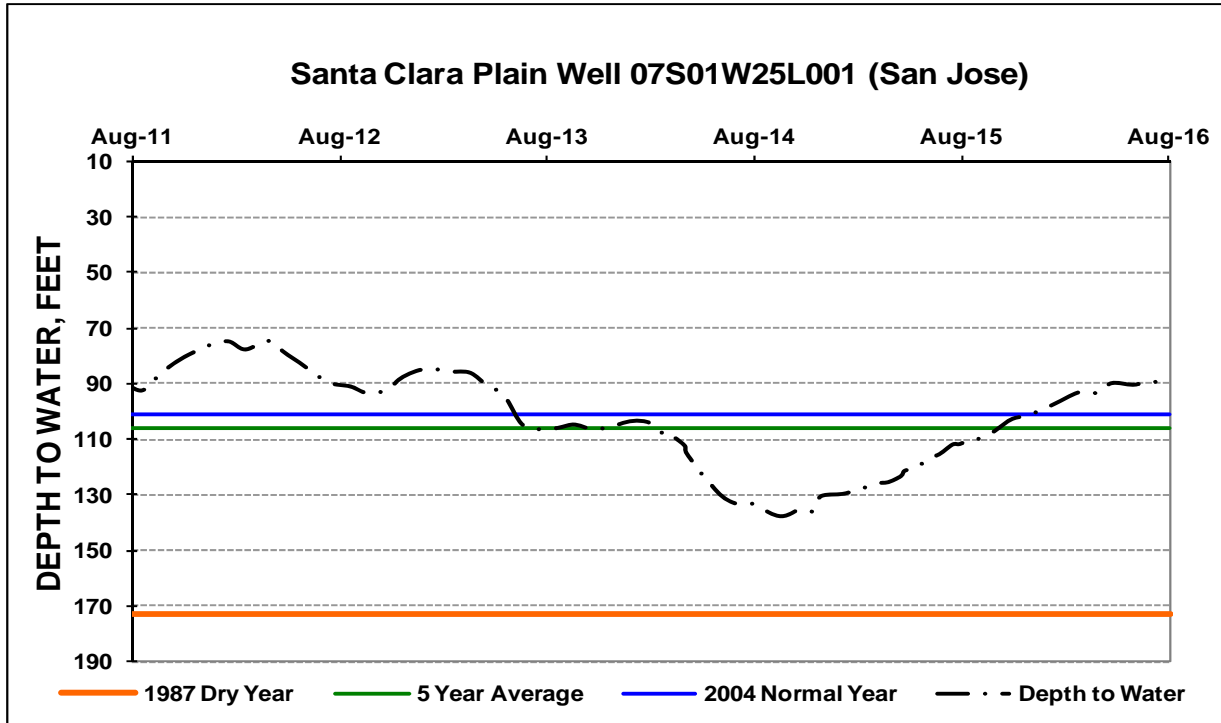


Figure 11 - Santa Clara Well Hydrograph

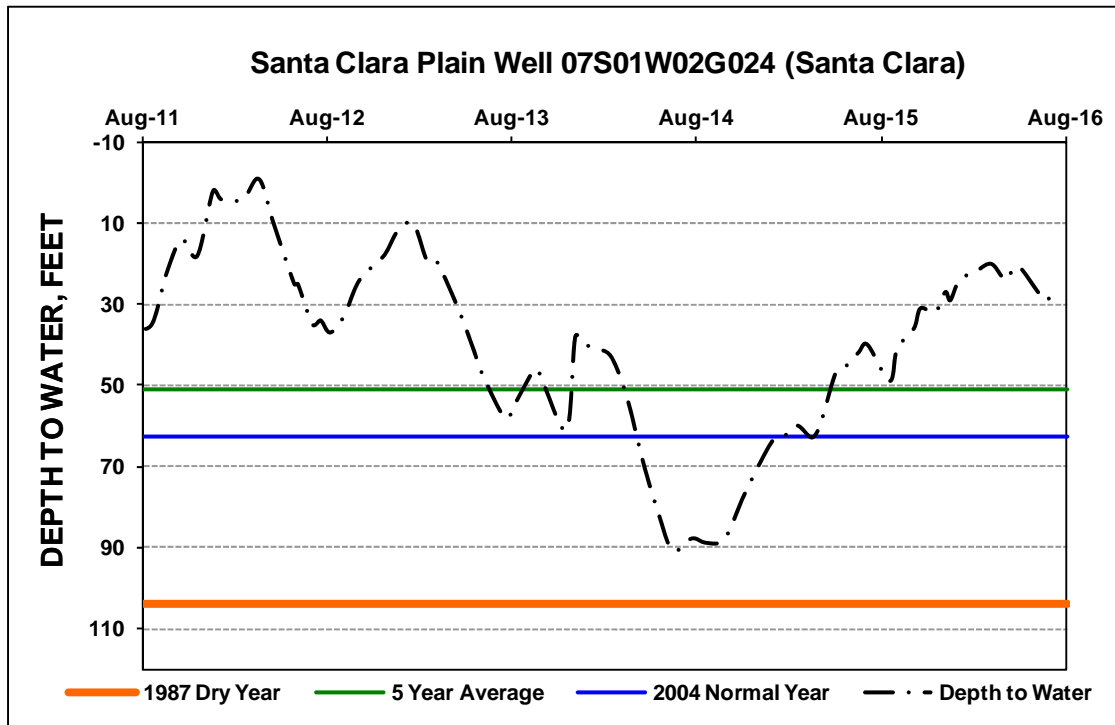


Figure 12 - South Santa Clara Well Hydrograph

September 2016 Groundwater Condition Report

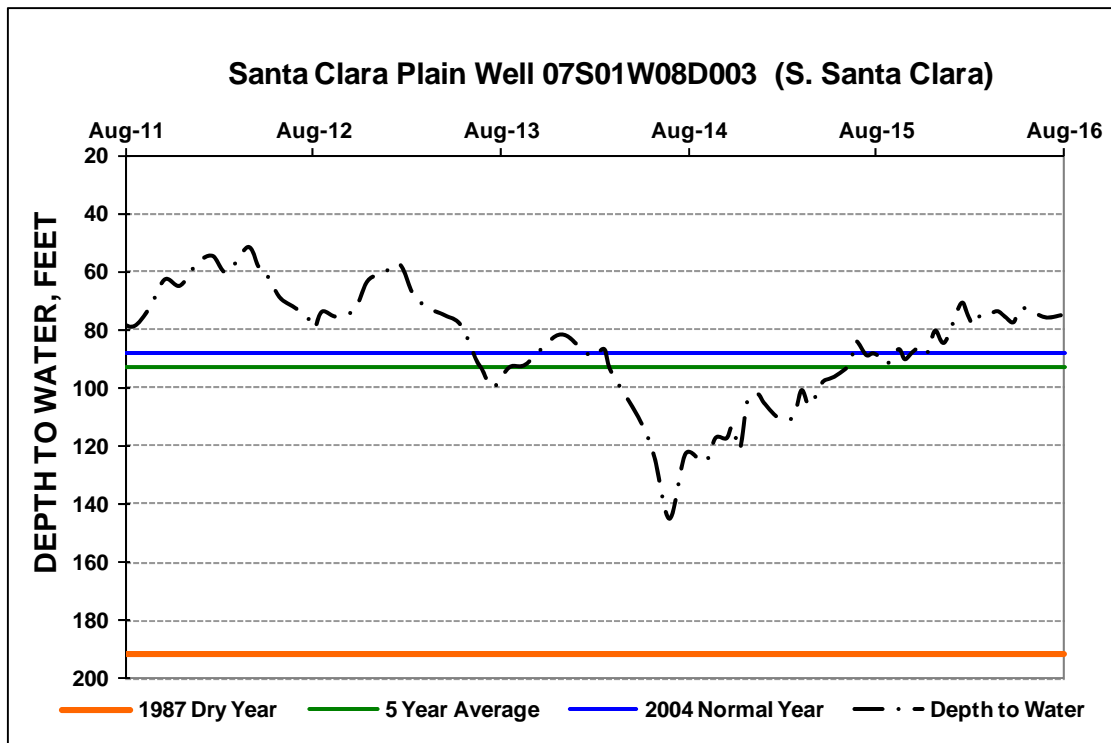


Figure 13 - Campbell Well Hydrograph

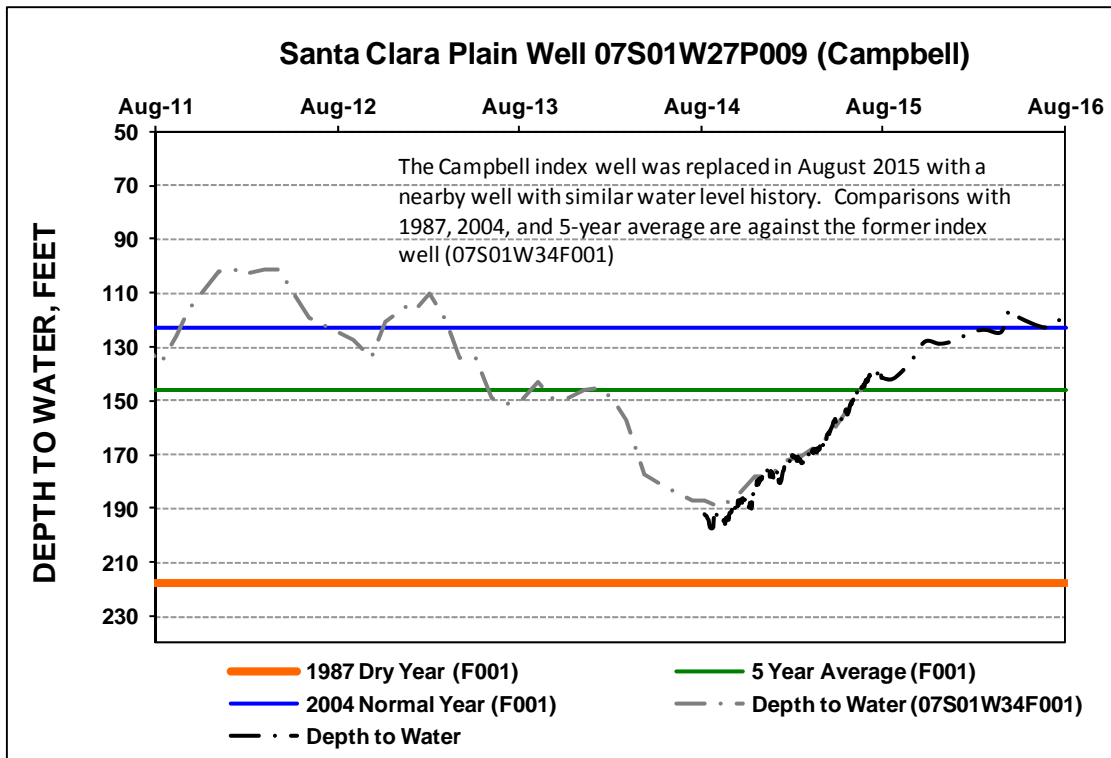


Figure 14 - South San Jose Well Hydrograph

September 2016 Groundwater Condition Report

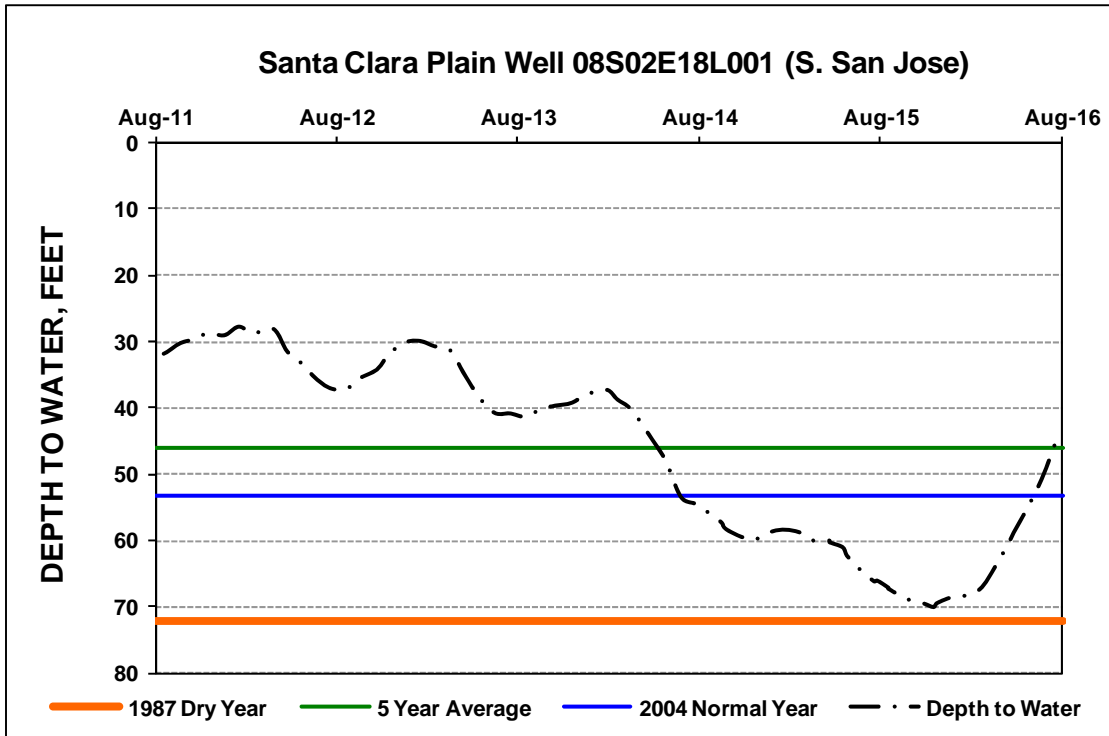


Figure 15 - Coyote Valley Well Hydrograph

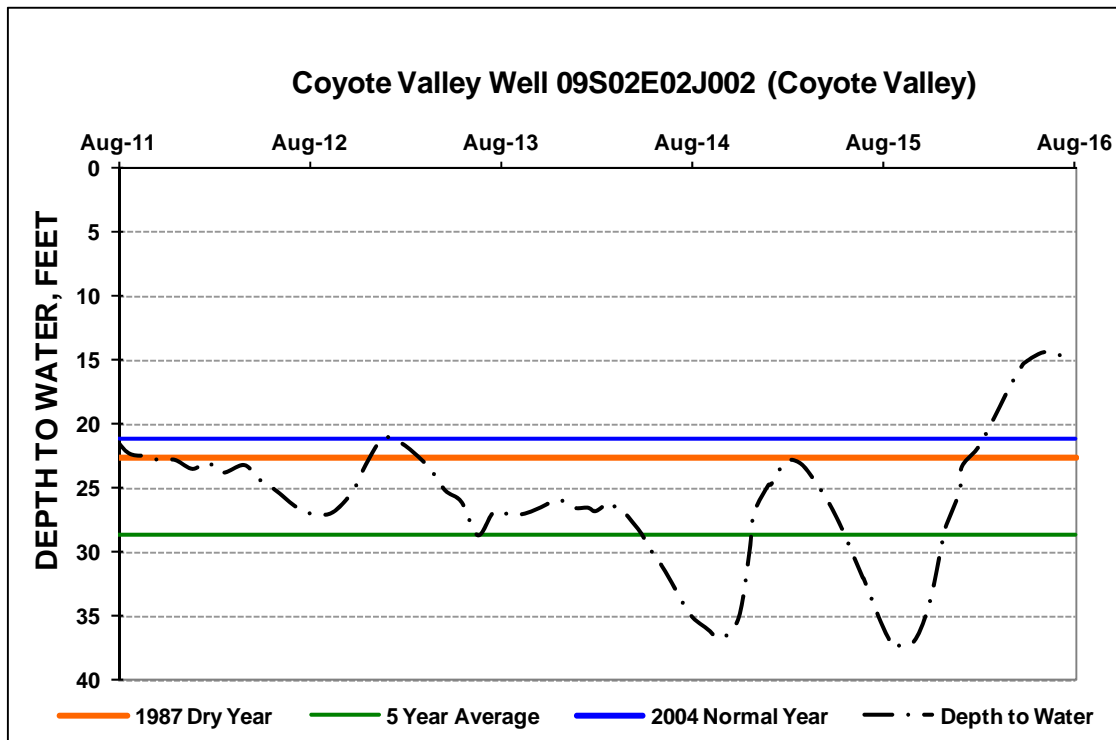


Figure 16 - Morgan Hill Well Hydrograph

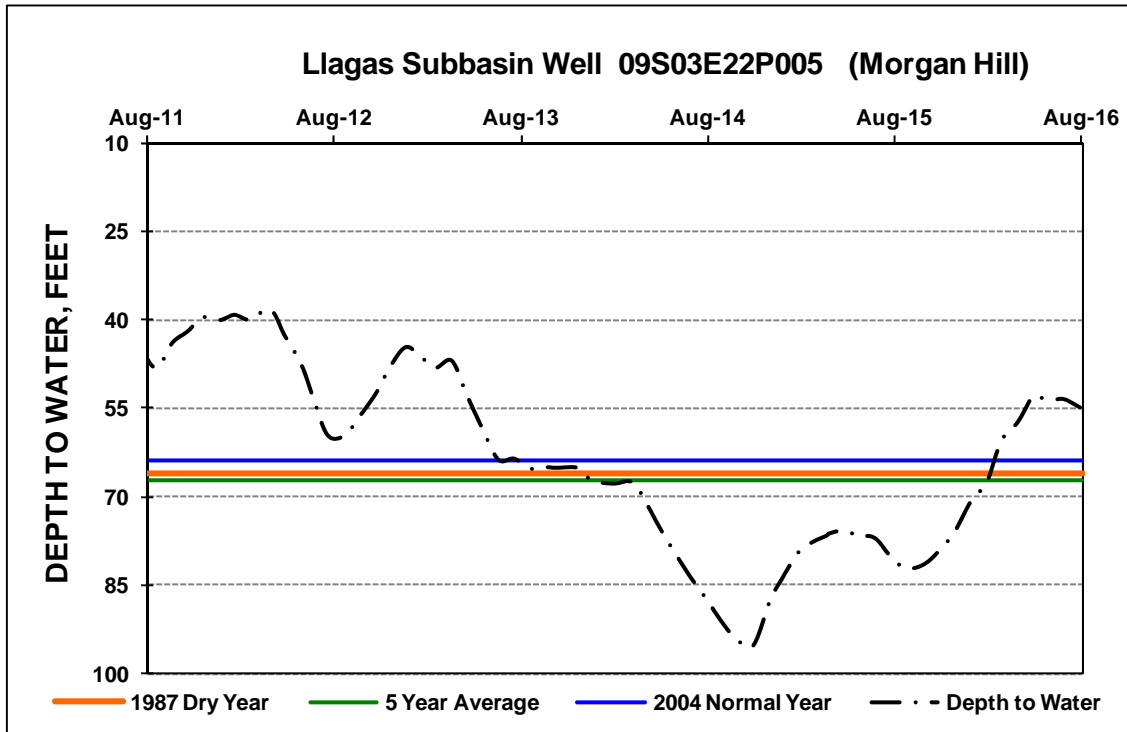
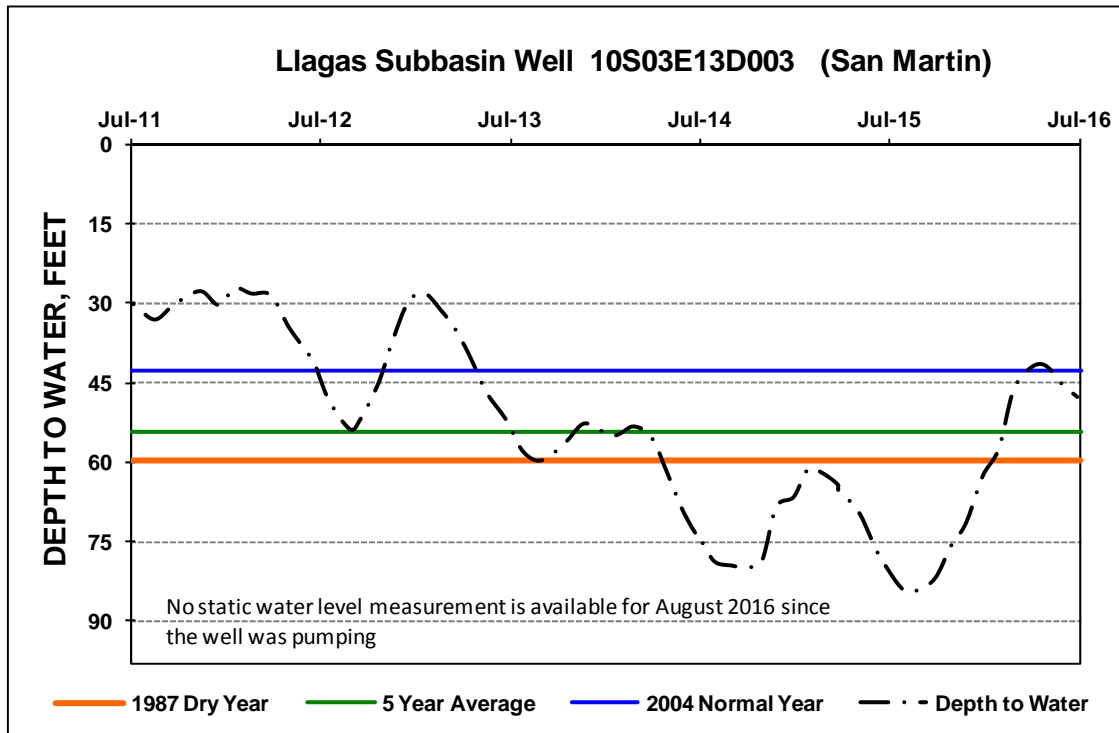
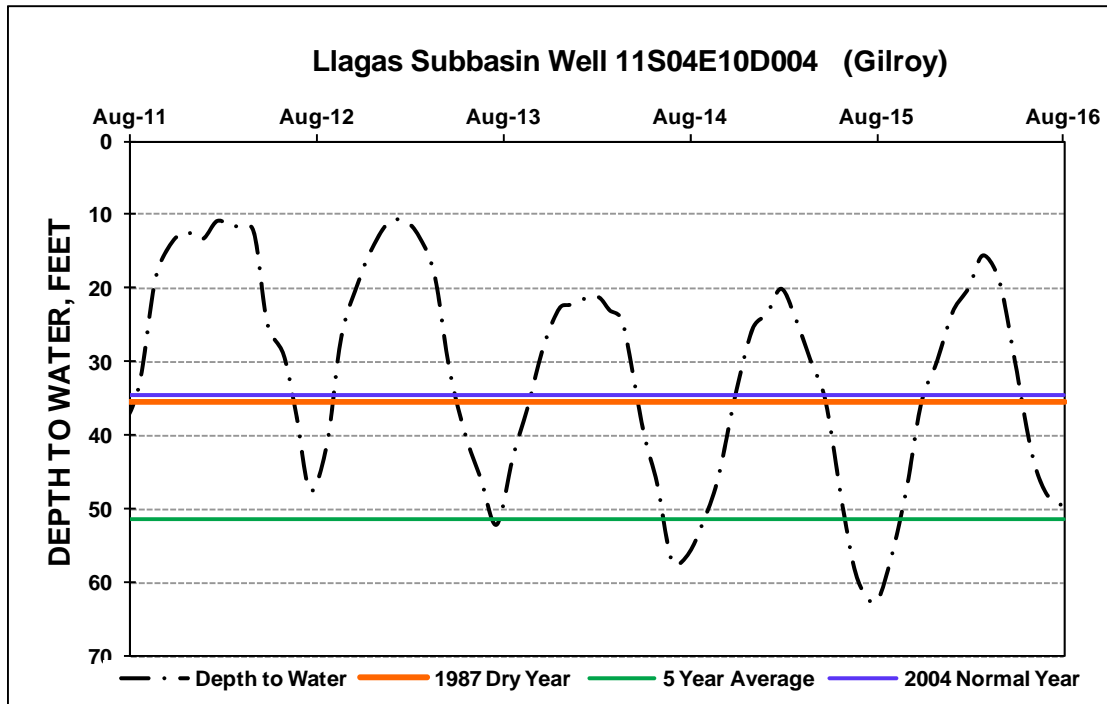


Figure 17 - San Martin Well Hydrograph



September 2016 Groundwater Condition Report

Figure 18 - Gilroy Well Hydrograph



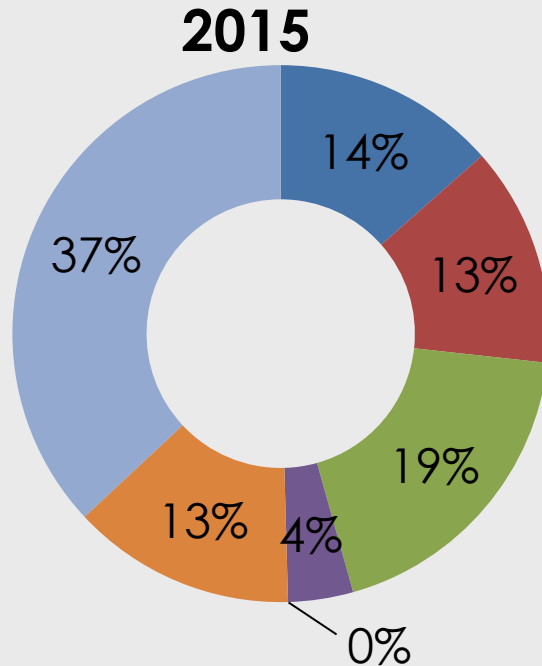
Water Supply Master Plan Update

October 17, 2016

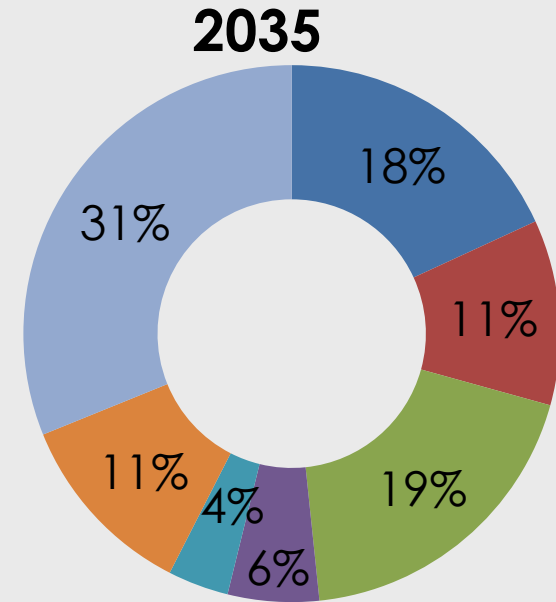


2012 Water Master Plan Strategy

Increase water conservation and water reuse, reduce reliance on Delta



- Long-Term Water Conservation
- Natural Groundwater Recharge
- Local Surface Water
- Recycled Water
- Potable Reuse
- SFPUC
- Delta-Conveyed Imported Water



- Long-Term Water Conservation
- Natural Groundwater Recharge
- Local Surface Water
- Recycled Water
- Potable Reuse
- SFPUC
- Delta-Conveyed Imported Water

Current Level of Service Goal

E-2 – “There is reliable, clean water supply for current and future generations”

S-2.1- “Develop supplies to meet at least 100 percent of demands in the Urban Water Management Plan in non-drought years and 90 percent of demands in drought years”

Current modeling shows shortages up to 30%

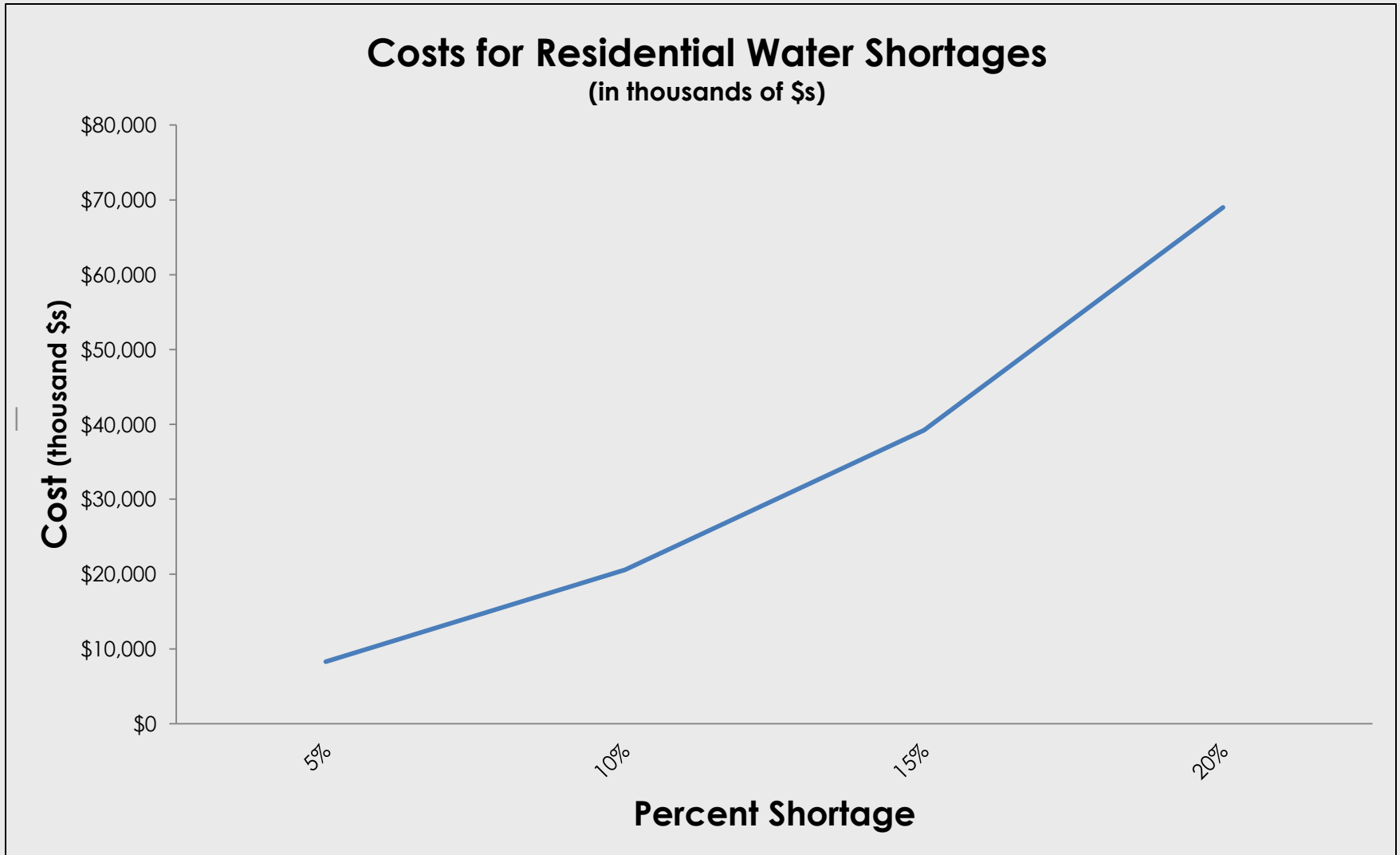
Demand Year	2020	2025	2030	2035	2040
Maximum Shortage (2012 Water Master Plan)	10%	10%	10%	10%	10%
Maximum Shortage (Current Analysis)	30%	10%	15%	30%	30%

The current analysis shows greater shortages than estimated in the 2012 Water Master Plan because of:

- 1) Lower natural groundwater recharge estimate
- 2) Additional FAHCE releases incorporated into the model
- 3) Lower SFPUC demands by retailers
- 4) Lower dry year Delta-conveyed imported water deliveries

Increasing costs of shortage

Based on 2012 Water Master Plan analysis



Level of Service Goal Considerations

Current
Level of
Service
Goal



Level of Service Goal for Planning	Considerations
Meet 100% of Demands during Droughts	Substantial additional investments; likelihood of stranded or underutilized investment
Meet 90% of Demands during Droughts	Significant additional investments; some community cost
Meet 85% of Demands during Droughts	Less significant additional investments; increased community cost
Meet 80% of Demands during Droughts	Least additional investments; relatively high community cost

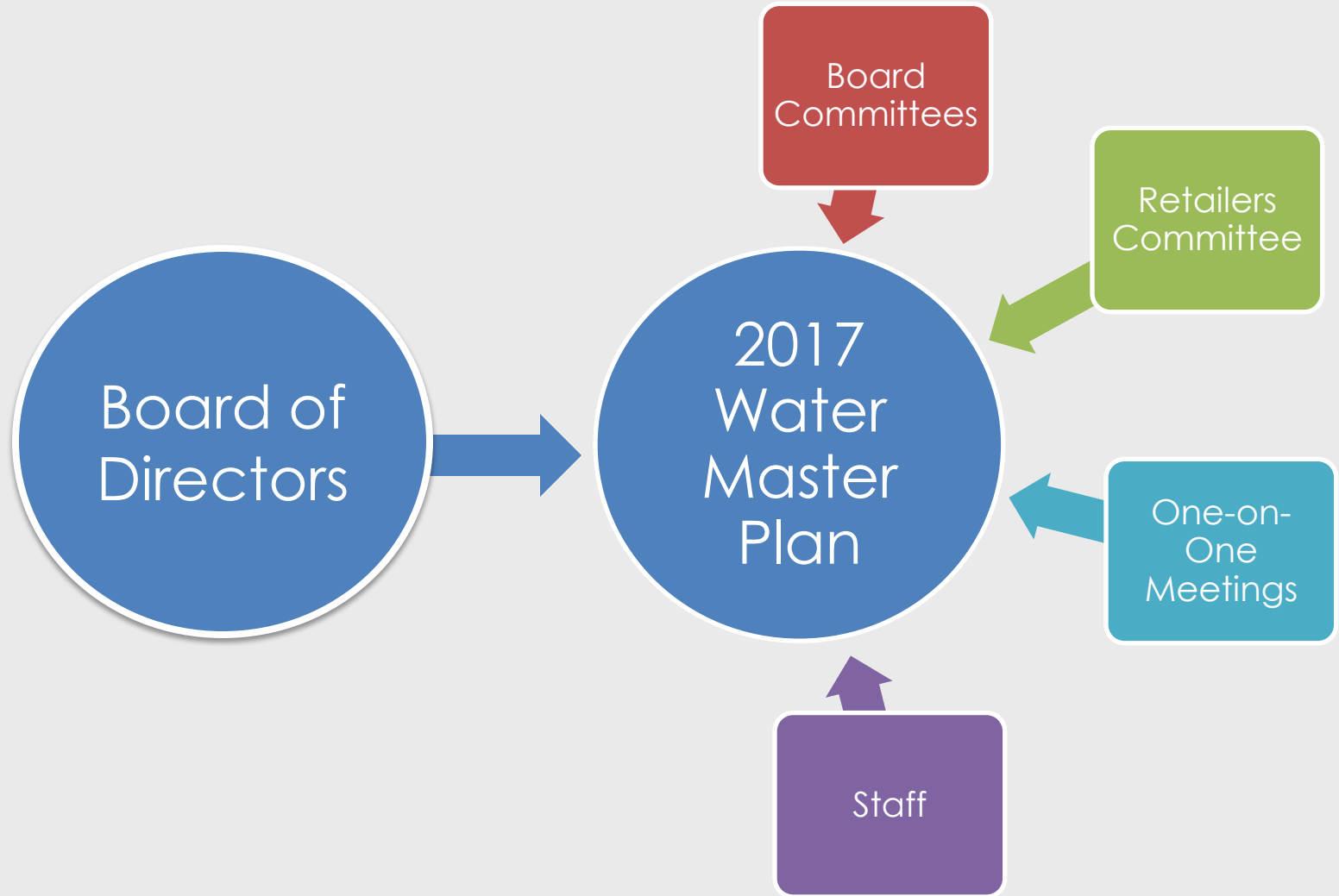
Objectives used to assess different strategies

Objective	Sub-Objectives
1. Provide a Reliable Supply of Water for Municipalities, Industries, Agriculture, and the Environment	<ul style="list-style-type: none"> •Meet demands •Maintain groundwater storage •Secure existing supplies •Reduce reliance on Delta •Maximize water conservation/water use efficiency
2. Ensure Drinking Water Quality	<ul style="list-style-type: none"> •Protect groundwater quality •Meet drinking water regulations
3. Minimize Costs	<ul style="list-style-type: none"> •Minimize life-cycle costs
4. Maximize Water System Flexibility	<ul style="list-style-type: none"> •Maximize District influence •Minimize implementation issues •Allow for phased implementation •Adapt to climate change
5. Protect the Natural Environment	<ul style="list-style-type: none"> •Protect and restore aquatic ecosystems •Reduce greenhouse gas emissions
6. Ensure Community Benefits	<ul style="list-style-type: none"> •Fulfill customer expectations •Provide access for recreation •Provide flood protection

Water Supply Alternatives

- ▶ Storage, inside and outside county, surface and groundwater
- ▶ Groundwater recharge ponds
- ▶ Potable reuse
- ▶ Recycled water
- ▶ Conservation and demand management
- ▶ Graywater reuse
- ▶ Ag land fallowing
- ▶ Ag land flooding
- ▶ Stormwater reuse
- ▶ Desalination
- ▶ Transfers/dry year options
- ▶ Additional water rights
- ▶ SFPUC deliveries
- ▶ California WaterFix
- ▶ Shallow groundwater reuse

Use existing forums for stakeholder engagement



2017 Water Master Plan Schedule

Activity	Scheduled Completion Date
Conduct Stakeholder Engagement	Ongoing
Establish Expert Panel	September 2016
Develop Planning Objectives	October 2016
Evaluate Risk Scenarios	October 2016
Update Model	October 2016
Define Projects and Programs	September 2016
Prepare Baseline System Evaluation	November 2016
Evaluate Portfolios	January 2017
Identify Recommended Portfolio	March 2017
Develop Implementation Program	June 2017
Prepare Water Master Plan	August 2017



Committee: Environmental and Water Resources
Meeting Date: 10/17/16
Agenda Item No.: 4.2
Unclassified Manger: Michele King
Email: mking@valleywater.org

COMMITTEE AGENDA MEMO

SUBJECT: Receive Status Update from Working Groups

RECOMMENDED ACTION:

Provide comment to the Board in the implementation of the District's mission as it applies to the working groups' recommendations.

SUMMARY:

The Board approved the Committee's request to keep the Committee informed of the working groups' activities and results. This will be a standing agenda item.

BACKGROUND:

The District Act provides for the creation of advisory boards, committees, or commissions by resolution to serve at the pleasure of the Board.

Accordingly, the Board has established Board Committees, which bring respective expertise and community interest, to advise the Board, when requested, in a capacity as defined: prepare Board policy alternatives and provide comment on activities in the implementation of the District's mission for Board consideration. In keeping with the Board's broader focus, Board Committees will not direct the implementation of District programs and projects, other than to receive information and provide comment.

Further, in accordance with Governance Process Policy-3, when requested by the Board, the Board's Committees may help the Board produce the link between the District and the public through information sharing to the communities they represent.

ATTACHMENT(S):

Attachment 1: 2016 EWRC Independent Working Groups Spreadsheet

2016 EWRC Independent Working Groups

Committee Member:	1. Protect Instream Beneficial Uses of Streams During Drought	2. Promote Environmental Justice	3. Policies To Encourage Water Conservation	Subset of #2 Environmental Justice 4. Policies for Addressing Homeless Pollution of Streams	5. Policies for Removal of Non-native Species in Streams	6. Policies for District Activity On Private Property To Protect In-Stream Beneficial Uses Of Streams	7. Policies For Engagin in Flood Control (Protection) Efforts	8. Subset of iWG # Salmonid Fisery Restoration Strategy	Total Groups Joined
Bonnie Bamburg								0	
Tess Byler								0	
Hon. Dean Chu								0	
Patricia Colombe	Yes						Yes	2	
Kit Gordon	Yes						Yes	2	
Stephen A. Jordan				Yes				1	
Arthur M. Keller, Ph.D.			Yes				Yes	2	
Hon. Patrick Kwok								0	
Susan M. Landry			Yes	Yes				2	
Loren B. Lewis								0	
Bob Levy	Yes				Yes			2	
Rev. Jethroe Moore, II				Yes				1	
Rita Norton								0	
Marc Rauser								0	
Elizabeth Sarmiento								0	
Nancy Smith		Yes						1	
Richard Zahner								0	
Charles Taylor								0	
Total Members	3	1	2	3	1	0	1	2	13

No District Staff hours are provided to support the working groups

Members should limit the number of working groups they are on because of possible Brown Act 3 or less

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Committee: Environmental and Water Resources
Meeting Date: 10/17/16
Agenda Item No.: 4.3
Unclassified Manger: Michele King
Email: mking@valleywater.org

COMMITTEE AGENDA MEMO

SUBJECT: Review Environmental and Water Resources Committee Work Plan, the Outcomes of Board Action of Committee Requests; and the Committee's Next Meeting Agenda.

RECOMMENDED ACTION:

Review the Board-approved Committee work plan to guide the committee's discussions regarding policy alternatives and implications for Board deliberation.

SUMMARY:

The attached Work Plan outlines the Board-approved topics for discussion to be able to prepare policy alternatives and implications for Board deliberation. The work plan is agendized at each meeting as accomplishments are updated and to review additional work plan assignments by the Board.

BACKGROUND:

Governance Process Policy-8:

The District Act provides for the creation of advisory boards, committees, or commissions by resolution to serve at the pleasure of the Board.

Accordingly, the Board has established Advisory Committees, which bring respective expertise and community interest, to advise the Board, when requested, in a capacity as defined: prepare Board policy alternatives and provide comment on activities in the implementation of the District's mission for Board consideration. In keeping with the Board's broader focus, Advisory Committees will not direct the implementation of District programs and projects, other than to receive information and provide comment.

Further, in accordance with Governance Process Policy-3, when requested by the Board, the Advisory Committees may help the Board produce the link between the District and the public through information sharing to the communities they represent.

ATTACHMENT(S):

Attachment 1: Environmental and Water Resources Committee 2016 Work Plan
Attachment 2: Environmental and Water Resources Committee January 2017 Draft Agenda

GP8. Accordingly, the Board has established Advisory Committees, which bring respective expertise and community interest, to advise the Board, when requested, in a capacity as defined: prepare Board policy alternatives and provide comment on activities in the implementation of the District’s mission for Board consideration. In keeping with the Board’s broader focus, Advisory Committees will not direct the implementation of District programs and projects, other than to receive information and provide comment.

The annual work plan establishes a framework for committee discussion and action during the annual meeting schedule. The committee work plan is a dynamic document, subject to change as external and internal issues impacting the District occur and are recommended for committee discussion. Subsequently, an annual committee accomplishments report is developed based on the work plan and presented to the District Board of Directors.

ITEM	WORK PLAN ITEM BOARD POLICY	MEETING	INTENDED OUTCOME(S) (Action or Information Only)	ACCOMPLISHMENT DATE AND OUTCOME
1	Annual Accomplishments Report	January 25	<ul style="list-style-type: none"> Review and approve 2015 Accomplishments Report for presentation to the Board. (Action) Provide comments to the Board, as necessary. 	<p>Accomplished January 25, 2016: The Committee reviewed and approved 2015 Accomplishments Report for presentation to the Board.</p>
2	Election of Chair and Vice Chair for 2016	January 25	<ul style="list-style-type: none"> Committee Elects Chair and Vice Chair for 2015. (Action) 	<p>Accomplished January 25, 2016: The Committee elected the 2016 Committee Chair and Vice-Chair, Hon. Dean Chu and Mr. Loren Lewis respectively.</p>
3	Update on 2016 Water Supply and Drought Response	January 25 October 17	<ul style="list-style-type: none"> Receive update on water supply and drought response. (Action) Provide comments to the Board, as necessary. 	<p>Accomplished January 25, 2016: The Committee received information on the water supply and drought response and took no action.</p>

Yellow = Update Since Last Meeting

Blue = Action taken by the Board of Directors

ITEM	WORK PLAN ITEM BOARD POLICY	MEETING	INTENDED OUTCOME(S) (Action or Information Only)	ACCOMPLISHMENT DATE AND OUTCOME
4	<p>Review of Environmental and Water Resources Committee Work Plan, the Outcomes of Board Action of Committee Requests and the Committee's Next Meeting Agenda</p>	<p>January 25 April 18 July 18 Rescheduled August 22 October 17</p>	<ul style="list-style-type: none"> Receive and review the 2016 Board-approved Committee work plan. <i>(Action)</i> Submit requests to the Board, as appropriate. 	<p>Accomplished January 25, 2016: The Committee reviewed the committee work plan and took the following action:</p> <p>Action #1 The Committee requested that the Board consider allowing the Committee to distribute the informal working groups' roster at each meeting; annually send out the working groups' guidelines; and, also, have a list of topics the working groups are discussing and advise the Board and request quarterly feedback, whenever, possible.</p> <p>Action #2 The Committee requested that the Board consider changing two information items on the Committee's 2016 work plan {Status Report on Water Resources Plan, Update on Bay Delta Conservation Plan and Imported Water with Respect to Board Ends Policy 2.1:Reliable Water} to action items. Also, have the Committee to review and comment on surface water charges and quality, imported water charges, flood protection activities, and securing imported water supplies to be paid by rate payers and /or land owners.</p> <p><i>The Board approved the Committee's requests at its February 23, 2016, meeting.</i></p>

Yellow = Update Since Last Meeting

Blue = Action taken by the Board of Directors

ITEM	WORK PLAN ITEM BOARD POLICY	MEETING	INTENDED OUTCOME(S) (Action or Information Only)	ACCOMPLISHMENT DATE AND OUTCOME
				<p>Accomplished April 18, 2016: The Committee reviewed the committee work plan and took no action.</p> <p>Accomplished August 22, 2016: The Committee reviewed the committee work plan and took the following action.</p>
5	Update of Status of Working Groups	January 25 April 18 July 18 Rescheduled August 22 October 17	<ul style="list-style-type: none"> Receive updates on the status of the working groups. (Action) Submit requests to the Board, as appropriate. 	<p>Accomplished January 25, 2016: The Committee received updates on the status of the working groups and took no action.</p> <p>Accomplished April 18, 2016: The Committee received updates on the status of the working groups and took no action.</p> <p>Accomplished August 22, 2016: The Committee received updates on the status of the working groups and took no action.</p>
6	Review and Comment to the Board on the Fiscal Year 2017 Proposed Groundwater Production Charges	April 18	<ul style="list-style-type: none"> Review and comment to the Board on the Fiscal Year 2017 Proposed Groundwater Production Charges. (Action) Provide comments to the Board, as necessary. 	<p>Accomplished April 18, 2016: The Committee reviewed the Fiscal Year 2017 Proposed Groundwater Production Charges and took no action.</p>

Yellow = Update Since Last Meeting

Blue = Action taken by the Board of Directors

ITEM	WORK PLAN ITEM BOARD POLICY	MEETING	INTENDED OUTCOME(S) (Action or Information Only)	ACCOMPLISHMENT DATE AND OUTCOME
7	Update on the CAWater Fix (Bay Delta Conservation Plan) and Imported Water with Respect to Board Ends Policy 2.1: Reliable Water	April 18 October 17	<ul style="list-style-type: none"> Receive an update on the Bay Delta Conservation Plan and Imported Water with Respect to Board Ends Policy 2.1:Reliable Water (Action) Provide comments to the Board, as necessary. 	<p>Accomplished April 18, 2016: The Committee received an update on the CAWater Fix (Bay Delta Conservation Plan) and Imported Water with Respect to Board Ends Policy 2.1: Reliable Water took no action.</p> <p>October 17, 2016: This agenda item was removed for this meeting because there was no new significant information for the Committee at this time. (Committee Chair Chu was apprised of the change)</p>
8	Comprehensive Review of Safe, Clean Water Program Grants and Partnership Projects	July 18 Rescheduled August 22	<ul style="list-style-type: none"> Discuss the Comprehensive Review of Safe, Clean Water Program Grants and Partnership Projects (Action) Provide comments to the Board, as necessary. 	<p>Accomplished August 22, 2016: The Committee received a presentation on the Comprehensive Review of Safe, Clean Water Program Grants and Partnership Projects and took no action.</p>
9	Conceptual Development of a Pilot Mini-Grant Program for Wildlife Habitat Restoration Grants and Partnerships (Project D3) of the Safe, Clean Water Program	July 18 Rescheduled August 22	<ul style="list-style-type: none"> Discuss the Conceptual Development of a Pilot Mini-Grant Program for Wildlife Habitat Restoration Grants and Partnerships (Project D3) of the Safe, Clean Water Program (Action) Provide comments to the Board, as necessary. 	<p>Accomplished August 22, 2016: The Committee received a presentation on Conceptual Development of a Pilot Mini-Grant Program for Wildlife Habitat Restoration Grants and Partnerships (Project D3) of the Safe, Clean Water Programs and took no action.</p>

Yellow = Update Since Last Meeting

Blue = Action taken by the Board of Directors

ITEM	WORK PLAN ITEM BOARD POLICY	MEETING	INTENDED OUTCOME(S) (Action or Information Only)	ACCOMPLISHMENT DATE AND OUTCOME
10	Update on the One Water Plan (formerly known as Water Resources Master Plan)	July 18 Rescheduled August 22	<ul style="list-style-type: none"> Receive an update on the One Water Plan (formerly known as Water Resources Master Plan). (Action) Provide comments to the Board, as necessary. 	<p>Accomplished August 22, 2016: The Committee received a presentation on the One Water Plan (formerly known as Water Resources Master Plan) and took no action.</p>
11	Review and comment on surface water charges and quality, imported water charges, flood protection activities, and securing imported water supplies to be paid by rate payers and /or land owners.	July 18 Rescheduled August 22	<ul style="list-style-type: none"> Review and comment on surface water charges and quality, imported water charges, flood protection activities, and securing imported water supplies to be paid by rate payers and /or land owners. (Action) Provide comments to the Board, as necessary. 	<p>Accomplished August 22, 2016: The Committee received a presentation on surface water charges and quality, imported water charges, flood protection activities, and securing imported water supplies to be paid by rate payers and /or land owners and took no action.</p>
12	Receive Update on the Fisheries and Aquatic Habitat Collaborative Effort (FAHCE) Process	October 17	<ul style="list-style-type: none"> Receive updates on Fisheries Aquatic Habitat Collaborative Efforts Process. (Information) Provide comments to the Board, as necessary. 	

Yellow = Update Since Last Meeting

Blue = Action taken by the Board of Directors

ITEM	WORK PLAN ITEM BOARD POLICY	MEETING	INTENDED OUTCOME(S) (Action or Information Only)	ACCOMPLISHMENT DATE AND OUTCOME
13	Riparian Ordinance Report	October 17	<ul style="list-style-type: none"> • Review and provide input on the Riparian Ordinance Report. (Action) • Provide comments to the Board, as necessary. 	<p>October 17, 2016: <i>This item is postponed until staff gets the Board's direction as to what type of feedback they expect from the Committee regarding the Riparian Ordinance Report. (Committee Chair Chu was apprised of this change).</i></p>
14	Overview of the Safe, Clean Water Program	October 17	<ul style="list-style-type: none"> • Receive an overview of the Safe, Clean Water Program. (Information) • Provide comments to the Board, as necessary. 	

Yellow = Update Since Last Meeting

Blue = Action taken by the Board of Directors



Committee Officers
Hon. Dean Chu, Chair
Mr. Loren Lewis, Vice Chair

Board Representative
Tony Estremera, Board Representative
Nai Hsueh, Board Alternate
Linda J. LeZotte, Board Representative

DRAFT AGENDA

ENVIRONMENTAL AND WATER RESOURCES COMMITTEE

MONDAY, JANUARY 23, 2017

6:00 p.m. – 8:00 p.m.

**Santa Clara Valley Water District
Headquarters Building Boardroom
5700 Almaden Expressway
San Jose, CA 95118**

**Time Certain:
6:00 p.m.**

- 1. Call to Order/Roll Call**
- 2. Time Open for Public Comment on Any Item Not on Agenda**
Comments should be limited to two minutes. If the Committee wishes to discuss a subject raised by the speaker, it can request placement on a future agenda.
- 3. Approval of Minutes**
 - 3.1 Approval of Minutes – October 17, 2016, meeting
- 4. Election of Chair and Vice Chair**
- 5. Action Items**
 - 5.1 Update on 2017 Water Supply and Drought Response (Aaron Baker)
Recommendation: This is an information item only and no action is required.
 - 5.2. Review and Approve 2016 Annual Accomplishments Report for Presentation to the Board (Committee Chair)
Recommendation: This is an action item to provide comments to the Committee Chair to share with the Board as part of the Accomplishments Report presentation pertaining to the purpose, structure, and function of the Committee.
 - 5.3 Receive Status Update from Working Groups (Committee Chair)
Recommendation: Provide comment to the Board in the implementation of the District's mission as it applies to the working groups' recommendations.
 - 5.4 Review Environmental and Water Resources Committee Work Plan, the Outcomes of Board Action of Committee Requests and the Committee's Next Meeting Agenda (Committee Chair)
Recommendation: Review the Board-approved Committee work plan to guide the committee's discussions regarding policy alternatives and implications for Board deliberation.

6. **Clerk Review and Clarification of Committee Requests to the Board**

This is a review of the Committee's Requests, to the Board (from Item 4). The Committee may also request that the Board approve future agenda items for Committee discussion.

7. **Reports**

Directors, Managers, and Committee members may make brief reports and/or announcements on their activities. Unless a subject is specifically listed on the agenda, the Report is for information only and not discussion or decision. Questions for clarification are permitted.

7.1 Director's Report

7.2 Manager's Report

7.3 Committee Member Reports

8. **Adjourn:** Adjourn to next regularly scheduled meeting at 6:00 p.m., **April 17, 2017**, in the Headquarters Building Boardroom, 5700 Almaden Expressway, San Jose, CA 95118

All public records relating to an open session item on this agenda, which are not exempt from disclosure pursuant to the California Public Records Act, that are distributed to a majority of the legislative body will be available for public inspection at the Office of the Clerk of the Board at the Santa Clara Valley Water District Headquarter Building, 5700 Almaden Expressway, San Jose, CA., 95118, at the same time that the public records are distributed or made available to the legislative body.

The Santa Clara Valley Water District will make reasonable efforts to accommodate persons with disabilities wishing to attend committee meetings. Please advise the Clerk of the Board office of any special needs by calling 1-408-630-2277.

Environmental and Water Resources Committee's Purpose and Duties

The Environmental and Water Resources Committee of the Santa Clara Valley Water District is established to assist the Board of Directors (Board) with policies pertaining to water supply, flood protection and environmental stewardship.

The specific duties are:

- Prepare policy alternatives;
- Provide comment on activities in the implementation of the District's mission; and
- Produce and present to the Board an Annual Accomplishments Report that provides a synopsis of the annual discussions and actions.

In carrying out these duties, Committee members bring to the District their respective expertise and the interests of the communities they represent. In addition, Committees may help the Board produce the link between the District and the public through information sharing to the communities they represent.



Committee: Environmental and Water Resources
Meeting Date: 10/17/16
Agenda Item No.: 5.1
Unclassified Manager: Jim Fiedler
Email: jfiedler@valleywater.org

COMMITTEE AGENDA MEMO

SUBJECT: Update on the Fisheries and Aquatic Habitat Collaborative Effort (FAHCE)

RECOMMENDED ACTION:

This is an information item only. No action is required.

SUMMARY:

In 2003, the Fisheries and Aquatic Habitat Collaborative Effort (FAHCE) Settlement Agreement was initiated by the District, Guadalupe – Coyote Resource Conservation District (GCRCD), Trout Unlimited, the California Department of Fish and Wildlife (CDFW), U. S. Fish and Wildlife Service (USFWS), and National Marine Fisheries Service (NMFS), collectively referred to as the Initialing Parties (IPs), to address a water rights complaint filed by the GCRCD. The complaint before the State Water Resources Control Board (SWRCB) alleges that District water supply operations on Coyote Creek, Guadalupe River, and Stevens Creek adversely impact steelhead trout and Chinook salmon.

This is an update on the items presented to this Committee on October 19, 2015, including the process for completing the Fish Habitat Restoration Plan (FHRP) and the Environmental Impact Report (EIR).

BACKGROUND:

At the October 19, 2015 meeting of this committee, staff reported discussions on changes to the regulatory pathway, the progress of a Technical Working Group (TWG) consisting of fisheries restoration experts from the IPs and District team; and provided an overview of the proposed monitoring efforts.

Change in Regulatory Pathway

As discussed at the last EWRC, a key element in moving toward implementation of the FAHCE Settlement Agreement elements is the change in regulatory pathway, which allows the federal and state permitting process to occur after resolution of the water rights complaint. The FAHCE Initialing Parties (IPs) have agreed in principle to this approach -- the GCRCD and Trout Unlimited, along with CDFW and NMFS have provided letters of support to the District Board of Directors.

Progress on Completing the Fish Habitat Restoration Plan and EIR

Administrative drafts of the Fish Habitat Restoration Plan and the Program Environmental Impact Report (PEIR) were reviewed by the IPs in September 2015. Based on their comments, the need for additional technical analyses was identified. At its meeting on November 10, 2015, the Board approved a one-year extension and funding for additional water supply and biological modeling to support CEQA alternatives analysis – known as the Modeling Study Plan.

The TWG meets regularly to review technical Modeling Study Plan task outputs. The TWG is on track to complete the hydraulic evaluation elements. However, the scope of the biological evaluation has expanded as this aspect is unprecedented and beyond what was contemplated in the November 2015 Modeling Study Plan.

Staff is evaluating staffing and resource needs and will be seeking Board direction at the Oct. 25 2016 Board meeting. Attachment 1 provides an updated path for the project.

Coordination for Early Implementation

On a parallel track, the Safe, Clean Water Program provides funding for wildlife habitat restoration and fish habitat and passage improvements projects, that supports the management objectives of the FAHCE Settlement Agreement. The efforts are being coordinated among staff from both Watersheds Operations, Water Utility Enterprise and Office of District Counsel internally and external grantees and partners. The efforts include:

1. A grant awarded to Friends of Stevens Creek to conduct a feasibility study for Stevens Creek Steelhead Passage Improvement Project (Awarded in June 2016)
2. A grant awarded to Campus Community Association for a feasibility study on Metcalf Ponds Parkway Lakes Steelhead Habitat and Passage Improvement Project (Awarded in June 2016)
3. A partnership with County of Santa Clara to conduct a feasibility study for separation Ogier Ponds from Coyote Creek (awarded in March 2016, to be completed in Spring 2017)
4. A partnership fund is designated to finance up to \$1 million for construction costs to support removal of the Singleton Road Bridge and associated channel restoration (awarded in FY 2015, and pending action by the City of San Jose)
5. Almaden Lake Capital Project (on-going, included in the DEIR an evaluation of the Alamitos Drop Structure)
6. Countywide Large Woody Debris Gravel Augmentation Planning Effort (to be completed in Summer 2017)

Recently, a Fish Passage Assessment for Moffett Drop Structure was completed in May 2016) and Evelyn Bridge Road Crossing was completed in FY 2016.

Next Steps

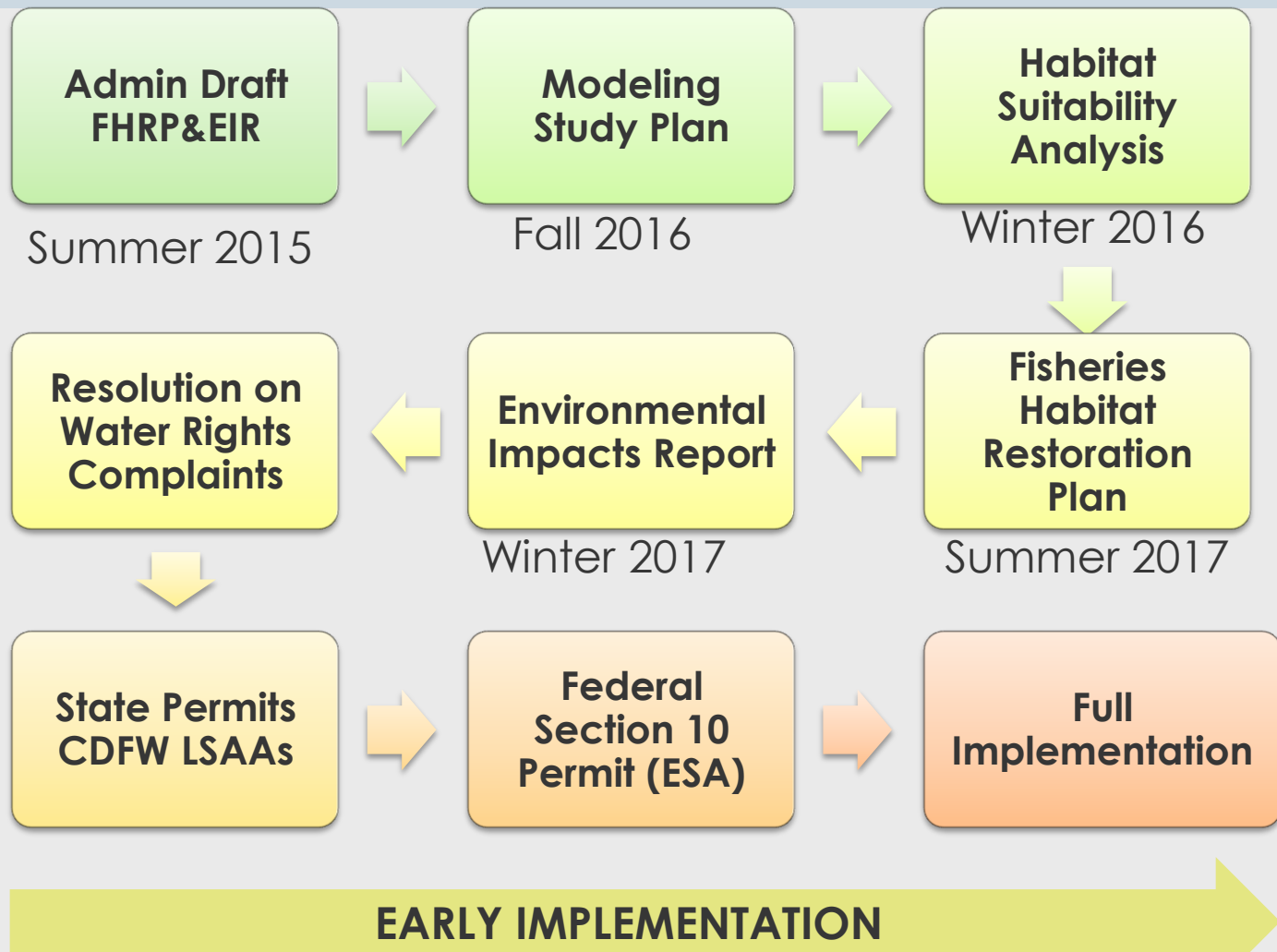
Staff is preparing for two upcoming Board meetings:

1. October 25, 2016, provide Board update, request for budget adjustment and for Board authorization for contract amendments;
2. November 1, 2016, a joint meeting between Santa Clara Valley Water District Board and GCRCD Board.

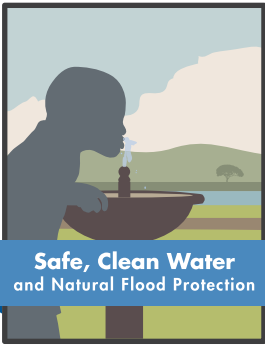
ATTACHMENT(S):

Attachment 1: Updated Path for FAHCE (As of October 2016)

Attachment 1. Updated Path for FAHCE (As of Oct. 2016)



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Fact Sheet

Safe, Clean Water and Natural Flood Protection



Safe, Clean Water and Natural Flood Protection Program

Everyone needs safe, clean water and everyone needs to be safe from flooding. Safe, Clean Water is a 15-year program to secure the present and future water resources of Santa Clara County. The program ensures that critical projects will continue to be provided to the community in the following key priority areas:

- A. Ensuring a safe reliable water supply
- B. Reducing toxins, hazards and contaminants in our waterways
- C. Protecting our water supply from earthquakes and natural disasters
- D. Restoring wildlife habitat and providing open space
- E. Providing flood protection to homes, businesses, schools, and highways

These are priorities that the Santa Clara County community clearly cares about. Voters approved the special parcel tax initiative in November 2012 with nearly 74% in favor.

Stakeholder engagement

We designed this program to reflect the community's values. The program development included direct input from more than 16,000 residents. Development of the 5-year implementation plan also included community and stakeholder outreach.

Because this program is for the community, we want to make sure the community is informed on the status of the Safe, Clean Water projects. The district has created a program website at:

www.valleywater.org/safecleanwater.aspx

The website provides updated information on the accomplishments, progress, financial expenditures and status, and grants/partnerships opportunities.



Beneficiaries of the program

Monitoring progress and expenditures

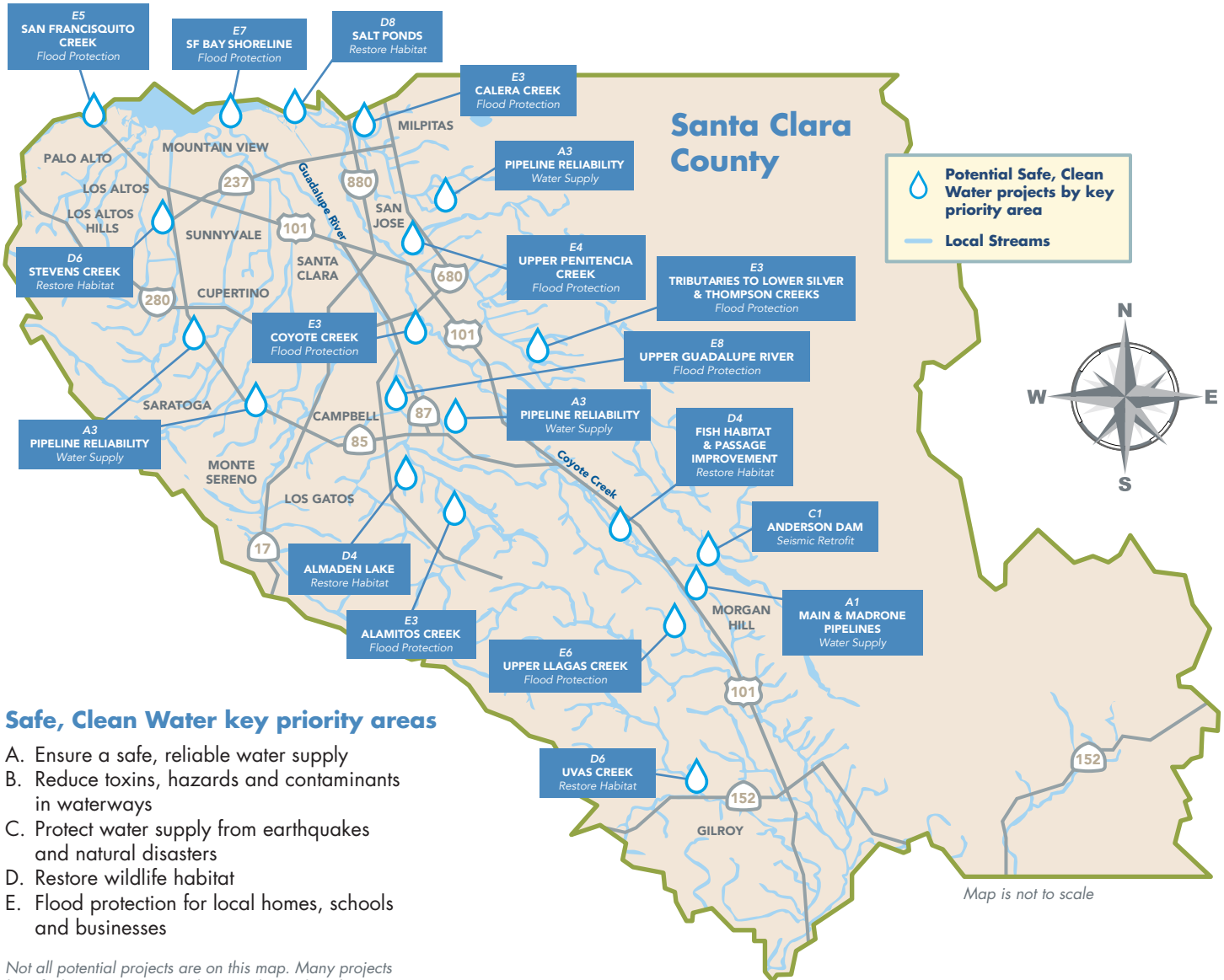
We want to make sure we stay true to our commitments and fulfill the community's expectations. The implementation and progress of the Safe, Clean Water program includes external oversight by an Independent Monitoring Committee (IMC). The IMC will monitor progress and expenditures according to Key Performance Indicators established for each project. The IMC will be conducting annual audits and reports of the program. In addition, on the fifth and tenth year of the program, the Board of Directors will commission independent professional audits and recommend any needed adjustments.

Implementation plans

In order to ensure continuous monitoring, tracking and oversight of the program, the district adopted a 5-year implementation plan that began in fiscal year 2014. The implementation plan outlines targets toward the completion of the Key Performance Indicators and provides for periodic adjustments to reflect any economic, policy or regulatory changes during the 15-year program. Two additional 5-year implementation plans will follow in fiscal years 2019 and 2024.

Progress toward completion of the targets outlined in the 5-year plan will be measured on an ongoing basis and presented in an annual district report, along with published program expenditures.

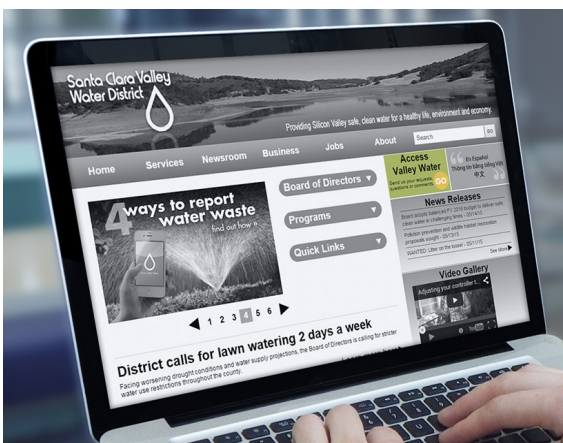
Entire county benefits from Safe, Clean Water projects



Safe, Clean Water key priority areas

- A. Ensure a safe, reliable water supply
- B. Reduce toxins, hazards and contaminants in waterways
- C. Protect water supply from earthquakes and natural disasters
- D. Restore wildlife habitat
- E. Flood protection for local homes, schools and businesses

Not all potential projects are on this map. Many projects benefit the entire county and are not located on the map. For details, visit www.valleywater.org/safecleanwater.aspx.



CONTACT US

For more information, contact **Ngoc Nguyen** at **(408) 630-2632**, or visit our website at valleywater.org and use our **Access Valley Water** customer request and information system. With three easy steps, you can use this service to find out the latest information on district projects or to submit questions, complaints or compliments directly to a district staff person.



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