DATE: May 8, 2017

AGENDA ITEM # 2

TO: Environmental Commission

FROM: J. Logan, Staff Liaison

SUBJECT: Finalize 2017/18 Environmental Commission Goals and Work Plan

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BACKGROUND

The Environmental Commission met with the City Council on May 2, 2017 to review its 2016/17 Environmental Commission Accomplishments and Draft 2017/18 Goals and discuss issues and project for the upcoming year. Based on this discussion, the Goals will be finalized and the 2017/18 Work Plan will be developed to focus the Commission's agenda items and to serve as a roadmap for the year.

DISCUSSION

Environmental Commission Goals and resulting Work Plan development targeted for 2017/18 are:

1. Climate Action Plan and Community Choice Energy
2. Water Conservation and stormwater management
3. Solid waste diversion
4. Visioning process
5. Community outreach
6. Special projects as assigned by Council

The Commission will commence discussion of the meeting results with Council, finalize the Goals and develop its 2017/18 Work Plan.

Attachments:

A. May 2, 2017 – 2016/17 Environmental Commission Accomplishments with attached 2017/18 Goals and Work Plan
B. Environmental Commission Green Building Subcommittee Report, February 2017
C. 2017/18 Work Plan
D. *March Monthly Water Use Status Report*, SCVWD

ATTACHMENT A

1 North San Antonio Road
Los Altos, California 94022-3087

M E M O R A N D U M

DATE: May 2, 2017

TO: City Council

FROM: Environmental Commission

SUBJECT: 2016/17 ENVIRONMENTAL COMMISSION ACCOMPLISHMENTS

Before you are the Environmental Commission 2016/17 work plan and accomplishments (covering the period April 2016 - April 2017) and the 2017/18 draft work plan.

There were four target areas in 2016/17. Here are the accomplishments:

1. Climate Action Plan & CCE.
    a. Worked with staff on the 2015 Climate Action Plan Report presented to Council
    b. Green Building Measures subcommittee has submitted report to staff and Council of recommendations on additional measures City could require or encourage to reduce carbon footprint and water use of new buildings
    c. Continued to track energy, water, solid waste diversion, miles traveled data on Environmental Resources Dashboard
    d. Served as resource to Councilmember Bruins as SVCE Director
    e. Organized community meeting with BayREN/Santa Clara County Office of Sustainability on energy efficiency programs in September 2016 partnered with SVCEA to host various community meetings in preparation for the launch of SVCE clean energy
    f. Received report on Community Climate Solutions

2. Water Conservation & Stormwater Management
    a. Subcommittee worked with staff and consultant on revisions to Shoulder Paving Policy which were presented to Council at November study session
    b. Continued to track water conservation data from CalWater and Santa Clara Valley Water District

3. Solid Waste Diversion.
    a. Subcommittee worked with staff and consultant on the construction and debris ordinance
    b. Received report from Mission Trails and provided feedback on measures to improve diversion rates

c. Developing metrics on waste diversion for Dashboard
d. Convened community meeting in February including presentations from Mission Trails and GreenTown Los Altos

4. Community Outreach.
    a. Supported Girl Scout drought tolerant demonstration garden project at Woodland library
    b. Conducted public forums noted above

There are five target areas in the draft 2017/18 work plan, with #6 as assigned:

1. Climate Action Plan & CCE
    a. Work with staff and/or consultant to measure progress on CAP measures. Request budget support to perform CAP update.
    b. Work with staff to bring recommended "reach" Green Building Measures to Council
    c. Evaluate other CAP measures for potential significant GHG reductions
    d. Serve as resource on CCE implementation and to Director Bruins on policy questions
    e. Maintain and enhance the environmental resources dashboard

2. Water Conservation & Stormwater Management
    a. Work with staff on stormwater reporting, permit compliance and Shoulder Paving Design Standard
    b. Continue to track water use on the environmental resources dashboard

3. Solid Waste Diversion.
    a. Add Solid Waste Diversion tracking to Dashboard

4. Visioning Process.
    a. Provide input into Community Center planning to ensure sustainable features and green building practices are incorporated into design phase. Seeking input from Council on timing and process to engage in project.

5. Community Outreach.
    a. Continue to implement web site improvements and add content
    b. Consider a community survey on environmental issues
    c. Continue to invite interesting speakers to EC meetings

6. Special Projects as assigned by Council

We welcome your input and guidance.

Thank you,
Laura Teksler
Chair, Environmental Commission

Environmental Commission Green Building Subcommittee Report

Commissioners: Halkola, Teksler, Yuan

February 2017

Purpose

To investigate potential voluntary measures the City of Los Altos could encourage in new Residential (single and multi-family) and Commercial buildings.

Background

The State of California has a comprehensive Green Building Standards Code known as CALGreen. This code focuses on measures in five categories; Planning & Design, Energy Efficiency, Water Efficiency & Conservation, Material Conservation & Resource efficiency and Environmental Quality. There is an extensive list of mandatory items required for both residential and non-residential new buildings, effective as of 1/1/17. In addition, there are several other measures that may be adopted by local governments called voluntary Tier I and Tier II measures.

There are also several voluntary rating systems which, prior to CALGreen, cities adopted as their green building code. The Leadership in Energy and Environmental Design (LEED) system developed by the US Green Building Council outlines specific green building practices or design elements in addition to prerequisite practices that builders apply to accrue points toward different levels. While there is a LEED for homes, LEED is typically used to rate larger commercial buildings. The GreenPoint Rated (GPR) system developed by Build It Green has a similar approach to LEED but focuses on residential development, with separate single- and multi-family guidelines. LEED and GPR were adopted by many local jurisdictions to advance green building. The California Green Builder program developed by the California Building Industry Association combines prescriptive measures with performance-based verification.

Focus Measures

Our subcommittee's approach was to focus on measures that would have relatively high and long-term environmental benefits while being less complex to implement and verify. The State already has a goal of achieving Zero Net Energy for all new residential buildings by 2020 and for all commercial buildings by 2030 and has adopted rigorous energy efficiency standards to achieve this. Therefore, the subcommittee did not focus on additional energy efficiency measures, except where they would facilitate less reliance on natural gas and more on electricity, thereby promoting the greatest reduction in carbon emissions since Los Altos' electricity will be carbon-free. We also singled out a few areas that seem to be particularly important given energy and electric vehicle (EV) usage Los Altos, including pool-related measures and increasing EV charging capacity.

Deconstruction

Definition

Disassemble existing buildings for reuse or recycling of building materials instead of demolishing and landfilling building waste.

CALGreen Standards

Requirements and Tier I/II for waste diversion (no requirement for deconstruction).
Mandatory Residential: 60% waste diversion: Tier 1 = 65%, Tier II=75%
Mandatory Non-Residential: 65% diversion.

Fiscal impact: Roughly double cost from demolition; tax credit for donated materials.
Environmental Benefit: Reduced landfill waste and increased reuse of materials.
Recommendation: Encourage deconstruction of existing structure.

Cool Roofs/Solar Reflectance Index Alternative (SRI)

Definition

Use roofing materials with a minimum aged solar reflectance and thermal emittance/minimum aged Solar Reflectance Index.

CALGreen Standards

Tier I	Roof Slope < 2:12	Roof Slope > 2:12
Residential	SRI 78	SRI 20
Non-Residential	SRI 64	SRI 16

Fiscal impact: $0.75-$1.50 per square foot for cool-roof coating and average yearly net savings of ~ $0.50 per square foot.*
Environmental Benefit: Reduces building energy use and heat island effect.
Recommendation: Encourage adoption of Tier I.

*https://www.epa.gov/heat-islands/using-cool-roofs-reduce-heat-islands

Solar PV/Water Heating

Definition

Install photovoltaic or solar water heating system.

CALGreen Standards

Residential: Elective Zero Net Energy design (relies on on-site renewable energy generation to achieve zero Energy Design Rating)
Non-Residential: Tier I/II for restaurant install solar water-heating system.

Fiscal impact: Varies depending on size of system and lease vs. purchase options.
Environmental Benefit: Reduces grid electricity and/or gas demand.
Recommendation: Encourage installation of PV or solar water heating system. (Alternatively: Require pre-plumbing for solar water heating)

Swimming Pool Measures

Definition

Install automatic pool covers and two-speed/variable speed pool pumps.

CALGreen Standards

Not included in CALGreen

Fiscal impact: Automatic pool covers cost $5-15 K. Variable speed pumps save an average of $500 per year in electricity and are a few hundred dollars more expensive to install than single-speed pumps.

Environmental Benefit: Pool covers reduce water evaporation and provide passive heating during summer/warm months. Variable speed pumps reduce pool pump energy use by 50-75%.**

Recommendation: Require installation of automatic pool covers and/or variable speed pool pumps.

** http://www.nrel.gov/docs/fy12osti/54242.pdf

100% Electric Buildings

Definition

All energy requirements of building occupants are met with electricity (no natural gas).

CALGreen Standards

Not included in CALGreen

Fiscal impact: Potential for reduced operating cost for building.

Environmental Benefit: Eliminates energy-related carbon emissions by relying solely on carbon-free electricity from SVCE or onsite renewable energy generation.

Recommendation: Require space or water heating to be electric (heat pump). Encourage 100% electric buildings.

Hot Water Recirculation System

Definition

Install demand hot water recirculation system.

Standards

Residential: No mandatory. Voluntary=equipped with demand hot water recirculation system

Fiscal impact: Demand pump ~$200. (Compared to the cost of continuous recirculation ~$500 per year in increase water heating and electricity use.)

Environmental Benefit: Energy efficiency and water conservation

Recommendation: Encourage installation of demand (preferably button-hot water recirculation systems) and prohibit continuous recirculation pumps, even those on timers.

Dual Piping/Graywater Irrigation System

Definitions

- Piping installed to permit future use of graywater irrigation system served by clothes washer or other fixtures.
- Install a graywater collection system for onsite subsurface irrigation using graywater collected from bathtubs, showers, bathroom sinks & laundry water.

CALGreen Standards

Residential: Voluntary measure to install piping or use graywater

Non-Residential: Graywater/rainwater in landscape areas

Fiscal impact: Laundry to Landscape $1,000-3,000 and ~$150/year water/sewer savings.
Environmental Benefit: Reduce use of potable water and reduce wastewater generation.
Recommendation: Encourage installation of dual piping or graywater irrigation system.

EV Charging/Readiness

Definition

Install a dedicated 208/240 branch circuit. Facilitate EV charging capability by installing raceways for future EV supply equipment by pre-installing infrastructure and adding charging stations easily added later.

CALGreen Standards

Residential: No mandatory. Tier I/II EV ready.

Non-Residential: Mandatory, varies based on # spaces, Tier I=8% spaces, Tier II=12%

Fiscal impact:
Environmental Benefit: No direct impact but enables reduced vehicle emissions.
Recommendation: Encourage adoption of Tier II standard.

Upgrade Electric Service Panel

Definition

Provide 200 Amp service to home.

CALGreen Standards

Not included in CALGreen

Fiscal impact: ~30% more expensive than 100 Amp service; one-time cost.
Environmental Benefit: No direct impact but accommodates increased EV ownership and demand and enables electrification of home, including additional electric vehicle charging and an increase in the number of heat pumps for space and water heating.
Recommendation: Encourage installation/upgrade to 200 Amp service

Other Measures

Some of the other measures included in CALGreen that we chose not to investigate are listed below.

- Recycled content of building materials (Res Tier 1 = 10%, II=15%)
- Topsoil reuse
- VOC/Formaldehyde content of flooring/insulation
- Rainwater Catchment (Res voluntary = use rainwater generated on 65% of roof)
- Energy Efficiency
- Water Efficiency (Non-Res Tier I=12%. II=20% savings)
- Eliminate potable water for landscaping (rainwater capture, recycled water, graywater)
- Reduce use of cement (Res Tier I = 20% reduction in foundation, II = 25% reduction)
- Permeable paving (Res Tier I = 20% or greater of hardscape; Tier II = 30%)

Incentives

Following are examples of incentives used by other cities to encourage adoption of voluntary measures:

- Expedited permit processing/Priority permitting
- Fee waivers
- Height/FAR waivers
- Rebates (eg for solar panels)
- City recognition/plaque

Next steps:

1. Present report to full Commission for discussion
2. Send report to staff for review and comments as to feasibility of measures
3. Include in Work Plan report to Council at Joint meeting

ENVIRONMENTAL COMMISSION
2017/18 Work Plan
May 8, 2017

Goal	Projects	Assignments	Target Date	City Priority related to	Status
Climate Action Plan & CCE	Community outreach and education for the implementation of CCE and SVCEA	• Speakers for outreach efforts (Bray – business outreach, Teksler, Hedden)	Ongoing	Climate Action Plan Goals and CCE implementation	Community meetings; 3-1-17 and 3-15-17
	Resource to Director Bruins	• Policy & Program guidance (Teksler, Hedden, Weiden)	Monthly		review SVCE packet and recommendations to Director Bruins
	Provide assistance as directed by Council	• TBD (Name of Commissioner assigned)	As assigned by Council		
	Energy efficiency measure for community	• Commission to explore and research programs offered by PG&E, Acterra, Energy Upgrade California, CA First (Hedden)	Oct. 2016 workshop with SCCo Office of Sustainability		Done
	Research best practice for building codes and planning requirements	• Commission to engage with staff to research and recommend areas to be reviewed (EV, solar installs, green building measures) (Yuan, Teksler, Halkola)	report on agencies practices - TBD		Focus other energy products other than electricity Subcommittee meetings with CD Director and BO
	With staff, support opportunities for CAP GHG reduction measures	• Commission to support staff's efforts to review data and CAP reduction outcomes (biking/walking, car share, shuttle options) (Name of Commissioner assigned)	Quarterly		CAP update on CD project list

Climate Action Plan & CCE (cont.)	Environmental Resources Dashboard	• Review and enhance GHG reporting and data on Green Initiatives pages of City website (Bray, Eyre, Halkola)	July staff demo.		2014 data from PG&E 2015 water data
	Support tree inventory	• Provide resources to staff as needed (Name of Commissioner assigned)	TBD		
Water Conservation & Stormwater Management	Support community and municipal drought related measures	• TBD (Name of Commissioner assigned) • Track water usage via ER Dashboard (Name of Commissioner assigned) • Support staff in development of green infrastructure measures (Eyre)	Summer/Fall focus with ongoing review		Monitor drought status
	Stormwater management/shoulder paving policy	• Assist staff and review development of storm water plans and reporting (Weiden, Bray, Halkola)	Subcommittee meetings, staff reports		Shoulder paving policy revisions
Solid Waste Diversion	Review of progress toward diversion goals	• MTWS Annual review • Explore opportunities with staff for public outreach (Weiden, Yuan)	C&D ordinance to Council Aug. 2016		Staff/consultant/MTWS report in Q1 2017; Community meeting on Feb. 15, 2017
Visioning Process	Provide environmental perspective to assist visioning process	• TBD (Name of Commissioner assigned)	TBD		
Community Outreach	Support project implementation by public outreach and education efforts	• City webpages; social media; engage with community groups (Name of Commissioner assigned) • Invite speakers to EC meetings on Work Plan related topics (Name of Commissioner assigned	Ongoing		Partnership with GTLA, Girl Scouts demonstration garden, SVCEA,

ATTACHMENT D

MARCH
2017

Monthly Water Use Status Report

Santa Clara Valley Water District

Water Use Reductions Background

Purpose

This report provides monthly water supply and water use reduction data. The report originated in 2014 as part of the District response to drought conditions. 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

As a result of the multi-year drought and reduced water supply outlook, including projected groundwater storage, the Santa Clara Valley Water District's (district) Board of Directors (board) set a preliminary 2014 water use reduction target equal to 10 percent of 2013 countywide water use, and on February 25, 2014, increased the target to 20 percent. The resolution setting the reduction target also recommended retail water agencies, local municipalities and the County of Santa Clara (County) implement mandatory measures as needed to achieve the water use reduction target. As conditions have changed since early 2014, the board has updated its call for water use reductions and recommendations to achieve savings, as follows:

- November 25, 2014: Extended the February 25, 2014 call for 20 percent reductions through June 30, 2015.
- March 24, 2015: 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.
- November 24, 2015: Extended the call for 30 percent savings through June 30, 2016.
- June 14, 2016: Approved a resolution to revise the call for water use reductions to 20 percent, and to increase the allowable days for outdoor irrigation from two to three days a week.
- January 31, 2017: Approved a resolution calling for 20 percent reductions and continued certain water waste prohibitions, but removed the recommendations that retailers implement mandatory measures.

Summary of Response to Call for Water Use Reductions

From the beginning of the drought response 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. Some of these efforts are listed below:

- Water retailers and the district increased their outreach and education efforts.
- Investor owned retailers implemented water allocation programs.
- Landscape conversion rebates were temporarily increased to $2 per square foot (back to $1 per square foot as of July 1, 2016).
- Several irrigation hardware rebates were increased.

- Graywater laundry to landscape rebates were increased up to $200 per residential site for properly connecting a clothes washer to a graywater irrigation system.
- Rebate programs for commercial facilities were temporarily increased, 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).

The district held two summits, one with the retailers and one with local elected officials to:

- Continue to effectuate the common theme that messaging and policy development needs to be consistent and coordinated.
- Facilitate increased water use saving efforts and increased coordination to meet the 30 percent reduction target that was in place at that time.
- Focus coordination between the water district and retailers.
- Help transition the response by the community to the change in water use reductions and restrictions

Countywide Water Use Reductions

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. It is a small, but important and growing source of water.

Water retailers' water use reductions total from February to December 2014 was just above 13 percent for the year. After statewide and local efforts were increased, water reductions in 2015 (January through December 2015, compared to the same period in 2013) totaled an estimated 27 percent. January through December water reduction in 2016 were 28 percent compared to 2013. Preliminary 2017 data for February indicates that 27 percent reductions were achieved in February when compared to February 2013, and through February 2017, 21 percent reductions have been achieved so far. This is above the 20 percent target set by the board on January 31, 2017. The significant and sustained increases in water savings in 2015 and 2016 indicate that the district's, retailer's, municipalities', and County's efforts, along with actions at the state level, had an effect on water use behavior.

Water Supply Overview

Current Water Supply Status

Overall local and regional hydrologic conditions continue to improve as a result of winter storms.

- As previously reported, the U.S. Drought Monitor map for California indicates that Santa Clara County and northern California are no longer in drought condition.
- The district's preliminary 2017 SWP allocation is 60 percent of contract, as of March 20, 2017. The preliminary 2017 CVP allocations are not expected until late March 2017.
- As of March 1, 2017, local reservoir storage is at 149 percent of the 20-year average for this time of year. After the January and February 2017 storms, many reservoirs were exceeding their capacity. Storage in key northern California reservoirs is well above average for this time of year, and San Luis Reservoir is at 114 percent of average for March 1.
- Local and imported supplies are less constrained as compared to the last few years, and the district has taken advantage of the improved water supply conditions by increasing recharge operations compared to 2015, in collaboration with regulatory agencies.
- As of March 1, 2017, managed groundwater recharge in the Santa Clara Plain is 55 percent of the five-year average for that date, and there has been much improvement in groundwater storage compared to 2015. Estimated end of 2016 groundwater storage was within the lower range of Stage 1 (Normal) of the Water Shortage Contingency Plan. Staff continues to closely track groundwater conditions through monthly water level measurements at 225 wells and regular subsidence monitoring.

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. 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.

Water Use and Reductions Data

TABLE 1: CURRENT YEAR'S RETAIL WATER USE AF AND SAVINGS (2017 Compared to 2013)

2013	North County Ground water	South County Ground water	Treated Water	SFPUC	SJWC Surface	2013 Monthly Use	2013 Cumulative Use
Jan	3,063	1,192	5,879	3,477	1,807	**15,418**	**15,418**
Feb*	3,207	1,209	6,759	3,439	1,385	**15,999**	**31,418**
Mar	5,728	1,586	8,352	3,416	595	**19,676**	**51,094**
Apr	6,556	1,906	10,876	4,591	422	**24,352**	**75,446**
May	8,415	2,314	13,650	5,894	299	**30,573**	**106,018**
Jun	8,937	2,312	13,769	5,263	516	***30,797***	**136,815**
Jul	10,579	2,614	13,646	5,803	616	***33,258***	**170,074**
Aug	9,949	2,400	13,640	6,144	584	***32,716***	**202,790**
Sep	7,957	2,305	12,845	4,970	531	***28,608***	**231,398**
Oct	8,074	2,154	11,612	4,685	502	***27,027***	**258,424**
Nov	6,826	1,692	8,749	3,671	326	***21,265***	**279,689**
Dec	6,852	1,398	7,182	3,108	203	***18,744***	**298,433**
Jan to Current Totals*	***6,270***	***2,400***	***12,638***	***6,917***	***3,192***	***31,418***	
Jan to Dec Totals	**86,144**	**23,080**	**126,961**	**54,462**	**7,785**	***298,433***	

2017	North County Ground water	South County Ground water	Treated Water	SFPUC	SJWC Surface	2017 Monthly Use	2017 Cumulative Use	*Cumulative District Source Savings*	*Cumulative NonDistrict Source Savings*	All Sources Cumulative %Savings from 2013 <+> savings
Jan	3,194	1,283	5,993	2,446	134	**13,050**	**13,050**	*-3%*	*51%*	**15%**
Feb*	3,164	1,145	5,097	2,172	80	**11,657**	**24,707**	*7%*	*52%*	**21%**
Mar	-	-	-	-	-	**-**				
Apr	-	-	-	-	-	**-**				
May	-	-	-	-	-	**-**				
Jun	-	-	-	-	-	**-**				
Jul	-	-	-	-	-	**-**				
Aug	-	-	-	-	-	**-**				
Sep	-	-	-	-	-	**-**				
Oct	-	-	-	-	-	**-**				
Nov	-	-	-	-	-	**-**				
Dec	-	-	-	-	-	**-**				
***Jan to Current Totals**	**6,357**	**2,428**	**11,090**	**4,618**	**213**	**24,707**				
%Savings by Source of Supply	**-1%**	**-1%**	**12%**	**33%**	**93%**	**21%**				

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).

* Current month data for 2017 does not include Stanford data (not available at time of printing), and therefore also not included in 2013.

TABLE 2: LAST YEAR'S RETAIL WATER USE AF AND SAVINGS (2016 Compared to 2013)

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

2013	North County Ground water	South County Ground water	Treated Water	SFPUC	SJWC Surface	2013 Monthly Use	2013 Cumulative Use
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*	***86,144***	***23,080***	***126,961***	***54,642***	***7,785***	***298,613***	
Jan to Dec Totals	**86,144**	**23,080**	**126,961**	**54,642**	**7,785**	***298,613***	

2016	North County Ground water	South County Ground water	Treated Water	SFPUC	SJWC Surface	2016 Monthly Use	2016 Cumulative Use	*Cumulative District Source Savings*	*Cumulative NonDistrict Source Savings*	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	6,405	2,060	11,365	4,647	0.3	**24,477**	**122,516**	*32%*	*14%*	**28%**	*21%*
Aug	5,447	2,178	11,834	4,648	0.3	**24,107**	**146,623**	*31%*	*16%*	**28%**	*21%*
Sep	3,696	2,062	12,328	4,591	0.3	**22,678**	**169,301**	*30%*	*16%*	**27%**	*20%*
Oct	2,905	1,788	10,561	3,277	0.3	**18,532**	**187,833**	*30%*	*18%*	**27%**	*20%*
Nov	3,265	1,393	7,099	2,695	1.8	**14,454**	**202,286**	*30%*	*19%*	**28%**	*20%*
Dec*	3,539	1,333	6,190	2,428	60	**13,550**	**215,836**	*30%*	*20%*	**28%**	*not available*
***Jan to Current**	**49,472**	**18,874**	**97,321**	**42,602**	**7,566**	**215,836**					
%Savings by Source of Supply	**43%**	**18%**	**23%**	**22%**	**3%**	**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).

* Current month data does not include Stanford data - Not available at time of printing. Note 2013 monthly value includes Stanford data for Dec 2013.

TABLE 3: PAST YEAR'S RETAIL WATER USE AF AND SAVINGS (2015 Compared to 2013)

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

2013	North County Ground water	South County Ground water	Treated Water	SFPUC	SJWC Surface	2013 Monthly Total	2013 Cumulative Use
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**	

2015	North County Ground water	South County Ground water	Treated Water	SFPUC	SJWC Surface	2015 Monthly Use	2015 Cumulative Use	*Cumulative District Source Savings*	*Cumulative NonDistrict Source Savings*	All Sources Cumulative %Savings from 2013 <+> savings	Statewide Cumulative Savings (since Jan 2015)
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**					
%Savings by Source of Supply	**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 4: 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.

2013	North County Ground-water	South County Ground-water	Treated Water	SFPUC	SJWC Surface	2013 Monthly Total	2013 Cumulative Use Feb to Dec
January water use values are NOT used in water savings calculations or cumulative use values.							
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**	

2014	North County Ground-water	South County Ground-water	Treated Water	SFPUC	SJWC Surface	2014 Monthly Use	2014 Cumulative Use Feb to Dec		Cumulative % Savings from 2013 <+> savings
January water use values are NOT used in water savings calculations or cumulative use values.									
Jan	*6,485.1*	*1,508.7*	*8,137.3*	*3,631.3*	*0.3*	*19,762.7*	*19,762.7*		*Not Applicable*
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**			
%Savings by Source of Supply	**-19%**	**14%**	**31%**	**16%**	**78%**	**13%**			

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 was 10%. March through December was 20% of 2013 monthly use.

TABLE 6: 2017 RETAILER CUMULATIVE AND MONTHLY SAVINGS SUMMARY

Cumulative Water Retailer Savings	Jan to Jan	Jan to Feb	Jan to Mar	Jan to April	Jan to May	Jan to June	Jan to July	Jan to Aug	Jan to Sept	Jan to Oct	Jan to Nov	Jan to Dec
San Jose Water Company	14%	19%										
Santa Clara, city	18%	18%										
Sunnyvale	6%	17%										
San Jose Municipal Water	11%	21%										
California Water Service	33%	38%										
Palo Alto	29%	38%										
Mountain View	20%	31%										
Great Oaks	15%	19%										
Milpitas	12%	19%										
Gilroy	5%	12%										
Morgan Hill	3%	14%										
Purissima Hills Water	53%	50%										
Stanford	32%	[1]										
Combined Cumulative Savings	**15%**	**21%**										
Month to Month Water Retailer Savings	Jan to Jan	Feb to Feb	Mar to Mar	April to April	May to May	June to June	July to July	Aug to Aug	Sept to Sept	Oct to Oct	Nov to Nov	Dec to Dec
San Jose Water Company	14%	24%										
Santa Clara (City of)	18%	19%										
Sunnyvale	6%	27%										
San Jose Municipal Water	11%	30%										
California Water Service	33%	42%										
Palo Alto	29%	45%										
Mountain View	20%	40%										
Great Oaks	15%	24%										
Milpitas	12%	25%										
Gilroy	5%	19%										
Morgan Hill	3%	24%										
Purissima Hills Water	53%	46%										
Stanford	32%	[1]										
Combined Month to Month 2015	**15%**	**27%**										

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

TABLE 7: 2016 RETAILER CUMULATIVE AND MONTHLY SAVINGS SUMMARY

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

Month to Month Water Retailer Savings	Jan to Jan	Feb to Feb	Mar to Mar	April to April	May to May	June to June	July to July	Aug to Aug	Sept to Sept	Oct to Oct	Nov to Nov	Dec to Dec
San Jose Water Company	16%	18%	31%	36%	36%	28%	28%	28%	26%	33%	34%	31%
Santa Clara (City of)	19%	12%	22%	26%	29%	23%	17%	25%	5%	27%	23%	14%
Sunnyvale	14%	22%	25%	28%	36%	22%	26%	20%	12%	25%	30%	19%
San Jose Municipal Water	11%	22%	31%	33%	38%	25%	29%	25%	19%	30%	32%	26%
California Water Service	35%	31%	44%	42%	37%	26%	24%	23%	24%	37%	41%	42%
Palo Alto	24%	34%	23%	37%	35%	19%	14%	34%	11%	35%	30%	24%
Mountain View	30%	32%	23%	35%	42%	27%	28%	27%	10%	34%	32%	19%
Great Oaks	19%	21%	33%	38%	37%	26%	31%	26%	26%	29%	33%	25%
Milpitas	17%	20%	12%	24%	31%	18%	22%	21%	5%	23%	21%	12%
Gilroy	8%	13%	34%	33%	31%	28%	23%	23%	21%	27%	27%	21%
Morgan Hill	5%	19%	38%	43%	41%	21%	27%	19%	22%	34%	43%	35%
Purissima Hills Water	59%	26%	54%	22%	36%	11%	22%	25%	15%	45%	53%	47%
Stanford	34%	43%	31%	44%	38%	30%	25%	35%	29%	36%	47%	25%
Combined Month to Month 2015	**18%**	**21%**	**29%**	**35%**	**36%**	**26%**	**26%**	**26%**	**21%**	**31%**	**32%**	**27%**

TABLE 8: 2015 RETAILER CUMULATIVE AND MONTHLY SAVINGS SUMMARY

Cumulative Water Retailer Savings	Jan to Jan	Jan to Feb	Jan to Mar	Jan to April	Jan to May	Jan to June	Jan to July	Jan to Aug	Jan to Sept	Jan to Oct	Jan to Nov	Jan to Dec
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	Jan to Jan	Feb to Feb	Mar to Mar	April to April	May to May	June to June	July to July	Aug to Aug	Sept to Sept	Oct to Oct	Nov to Nov	Dec to Dec
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 9: 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
San Jose Water Company	3%	6%	10%	10%	9%	9%	10%	11%	11%	12%	13%
Santa Clara, city	7%	8%	9%	7%	8%	8%	8%	8%	8%	9%	10%
Sunnyvale	16%	15%	17%	15%	14%	14%	14%	13%	13%	13%	14%
San Jose Municipal Water	15%	16%	18%	14%	12%	12%	12%	12%	12%	12%	13%
California Water Service	15%	18%	19%	15%	13%	13%	13%	13%	14%	14%	16%
Palo Alto	32%	25%	16%	17%	16%	13%	15%	15%	15%	16%	16%
Mountain View	24%	18%	18%	17%	14%	14%	14%	14%	14%	15%	16%
Great Oaks	7%	11%	16%	15%	13%	14%	14%	15%	15%	16%	16%
Milpitas	11%	11%	11%	11%	10%	10%	11%	11%	11%	11%	11%
Gilroy	2%	11%	17%	14%	13%	12%	12%	13%	13%	14%	14%
Morgan Hill	-7%	9%	15%	16%	16%	16%	15%	15%	16%	18%	19%
Purissima Hills Water	45%	34%	28%	14%	14%	12%	14%	14%	14%	16%	16%
Stanford	24%	21%	15%	10%	10%	7%	8%	8%	6%	8%	7%
Combined Cumulative Savings	**9%**	**10%**	**13%**	**12%**	**11%**	**11%**	**11%**	**12%**	**12%**	**13%**	**13%**
Month to Month Water Retailer Savings	Feb to Feb	Mar to Mar	Apr to Apr	May to May	June to June	July to July	Aug to Aug	Sept to Sept	Oct to Oct	Nov to Nov	Dec to Dec
San Jose Water Company	3%	8%	16%	9%	7%	11%	13%	14%	16%	18%	26%
Santa Clara (City of)	7%	9%	9%	3%	12%	6%	12%	8%	8%	12%	24%
Sunnyvale	16%	14%	20%	12%	10%	13%	13%	12%	8%	20%	23%
San Jose Municipal Water	15%	16%	20%	8%	5%	10%	12%	12%	11%	18%	22%
California Water Service	15%	20%	20%	9%	8%	10%	13%	15%	19%	24%	40%
Palo Alto	32%	19%	3%	18%	16%	-1%	26%	14%	11%	33%	16%
Mountain View	24%	13%	18%	14%	5%	14%	17%	13%	13%	27%	22%
Great Oaks	7%	14%	22%	14%	8%	16%	17%	19%	17%	21%	22%
Milpitas	11%	11%	10%	11%	8%	10%	13%	12%	8%	16%	10%
Gilroy	2%	18%	24%	10%	7%	12%	12%	17%	13%	23%	24%
Morgan Hill	-7%	20%	23%	17%	14%	17%	13%	14%	24%	42%	36%
Purissima Hills Water	45%	23%	22%	-19%	15%	5%	23%	13%	14%	46%	26%
Stanford	24%	17%	7%	-1%	10%	-10%	17%	3%	-8%	28%	-15%
Combined Month to Month 2015	**9%**	**12%**	**16%**	**10%**	**8%**	**11%**	**14%**	**14%**	**14%**	**20%**	**25%**

California Water Service

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 Totals	***469.0***	***987.0***	***-***	***-***	***1,456.0***
January to December Total	***4,991.0***	***10,202.0***	-	-	***15,193.0***

2017	Groundwater	Treated Water	SFPUC	Surface	2017 Monthly Use
Jan	312.0	171.0	-	-	483.0
Feb	229.0	192.0	-	-	421.0
Mar	-	-	-	-	-
Apr	-	-	-	-	-
May	-	-	-	-	-
Jun	-	-		-	-
Jul	-	-		-	-
Aug	-	-	-	-	-
Sep	-	-	-	-	-
Oct	-	-	-	-	-
Nov	-	-	-	-	-
Dec	-	-	-	-	-
Jan to Current Month Totals	***541.0***	***363.0***	***-***	***-***	***904.0***
%Savings by Source of Supply	**-15%**	**63%**			**38%**

Gilroy

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	**871.0**	**-**	-	-	**871.0**
January to December Total	**9,323.1**	**-**	-	-	**9,323.1**

2017	Groundwater	Treated Water	SFPUC	Surface Water	2017 Monthly Use
Jan	407.8	-	-	-	407.8
Feb	360.1	-	-	-	360.1
Mar	-	-	-	-	-
Apr	-	-	-	-	-
May	-	-	-	-	-
Jun	-	-	-	-	-
Jul	-	-	-	-	-
Aug	-	-	-	-	-
Sep	-	-	-	-	-
Oct	-	-	-	-	-
Nov	-	-	-	-	-
Dec	-	-	-	-	-
Jan to Current Month Totals	**767.9**	**-**	-	-	**767.9**
%Savings by Source of Supply	**12%**				**12%**

Great Oaks

2013	Ground water - Zone 2	Ground water -Zone 5	Treated Water	SFPUC	2013 Monthly Use
Jan	240.8	415.2	-	-	656.0
Feb	277.6	376.7	-	-	654.3
Mar	430.5	409.7	-	-	840.2
Apr	652.3	376.3	-	-	1,028.6
May	901.6	391.4	-	-	1,293.0
Jun	970.8	368.9	-	-	1,339.7
Jul	1,056.8	366.9	-	-	1,423.7
Aug	1,040.8	342.0	-	-	1,382.8
Sep	882.6	368.9	-	-	1,251.5
Oct	751.0	359.7	-	-	1,110.7
Nov	534.4	343.3	-	-	877.7
Dec	444.5	306.2	-	-	750.7
Jan to Current Month Totals	**518.4**	**791.9**	**-**	**-**	**1,310.3**
January to December Total	**8,183.7**	**4,425.2**	**-**	**-**	**12,608.9**

2017	Ground water - Zone 2	Ground water -Zone 5	Treated Water	SFPUC	2017 Monthly Use
Jan	10.8	547.2	-	-	558.1
Feb	12.9	486.4	-	-	499.3
Mar	-	-	-	-	-
Apr	-	-	-	-	-
May	-	-	-	-	-
Jun	-	-	-	-	-
Jul	-	-	-	-	-
Aug	-	-	-	-	-
Sep	-	-	-	-	-
Oct	-	-	-	-	-
Nov	-	-	-	-	-
Dec	-	-	-	-	-
Jan to Current Month Totals	**23.8**	**1,033.6**	-	-	**1,057.3**
%Savings by Source of Supply	**95%**	**-31%**	-	-	**19%**

Milpitas

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		**463.0**	**911.0**		**1,374.0**
January to December Total	-	**3,250.0**	**7,507.0**	**-**	**10,757.0**

2017	Groundwater	Treated Water	SFPUC	Surface Water	2017 Monthly Use
Jan	-	233.5	357.2	-	590.7
Feb	-	224.7	303.8	-	528.4
Mar	-	-	-	-	-
Apr	-	-	-	-	-
May	-	-	-	-	-
Jun	-	-	-	-	-
Jul	-	-	-	-	-
Aug	-	-	-	-	-
Sep	-	-	-	-	-
Oct	-	-	-	-	-
Nov	-	-	-	-	-
Dec	-	-	-	-	-
Jan to Current Month Totals	**-**	**458.2**	**661.0**	**-**	**1,119.2**
%Savings by Source of Supply	-	**1%**	**27%**	-	**19%**

Morgan Hill

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	**690.0**	**-**	**-**		**690.0**
January to December Total	**8,940.0**	**-**	**-**	**-**	**8,940.0**

2017	Groundwater	Treated Water	SFPUC	Other	2017 Monthly Use
Jan	313.9	-	-	-	313.9
Feb	280.3	-	-	-	280.3
Mar	-	-	-	-	-
Apr	-	-	-	-	-
May	-	-	-	-	-
Jun	-	-	-	-	-
Jul	-	-	-	-	-
Aug	-	-	-	-	-
Sep	-	-	-	-	-
Oct	-	-	-	-	-
Nov	-	-	-	-	-
Dec	-	-	-	-	-
Jan to Current Month Totals	**594.2**	**-**	**-**	**-**	**594.2**
%Savings by Source of Supply	**14%**	**-**	**-**	**-**	**14%**

Mountain View

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	**56.0**	**117.0**	**1,264.0**	**-**	**1,437.0**
January to December Total	**389.0**	**1,329.0**	**10,559.0**	**-**	**12,277.0**

2017	Groundwater	Treated Water	SFPUC	Surface Water	2017 Monthly Use
Jan	1.9	44.7	469.2	-	515.8
Feb	10.5	39.1	421.0	-	470.7
Mar	-	-	-	-	-
Apr	-	-	-	-	-
May	-	-	-	-	-
Jun	-	-	-	-	-
Jul	-	-	-	-	-
Aug	-	-	-	-	-
Sep	-	-	-	-	-
Oct	-	-	-	-	-
Nov	-	-	-	-	-
Dec	-	-	-	-	-
Jan to Current Month Totals	**12.4**	**83.9**	**890.2**	**-**	**986.5**
%Savings by Source of Supply	**78%**	**28%**	**30%**		**31%**

Palo Alto

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	**-**	**-**	**1,553.4**		**1,553.4**
January to December Total	**-**	**-**	**13,435.9**	**-**	**13,435.9**

2017	Groundwater	Treated Water	SFPUC	Other	2017 Monthly Use
Jan	-	-	494.9	-	494.9
Feb	-	-	475.0	-	475.0
Mar	-	-	-	-	-
Apr	-	-	-	-	-
May	-	-	-	-	-
Jun	-	-	-	-	-
Jul	-	-	-	-	-
Aug	-	-	-	-	-
Sep	-	-	-	-	-
Oct	-	-	-	-	-
Nov	-	-	-	-	-
Dec	-	-	-	-	-
Jan to Current Month Totals	**-**	**-**	**969.9**	**-**	**969.9**
%Savings by Source of Supply			**38%**		**38%**

Purissima Hills Water District

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	**-**	**-**	**178.5**		**178.5**
January to December Total	**-**	**-**	**2,237.5**	**-**	**2,237.5**

2017	Groundwater	Treated Water	SFPUC	Other	2017 Monthly Use
Jan	-	-	47.7	-	47.7
Feb	-	-	41.4	-	41.4
Mar	-	-	-	-	-
Apr	-	-	-	-	-
May	-	-	-	-	-
Jun	-	-	-	-	-
Jul	-	-	-	-	-
Aug	-	-	-	-	-
Sep	-	-	-	-	-
Oct	-	-	-	-	-
Nov	-	-	-	-	-
Dec	-	-	-	-	-
Jan to Current Month Totals	**-**	**-**	**89.0**	**-**	**89.0**
%Savings by Source of Supply			**50%**		**50%**

San Jose Municipal Water

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	**72.3**	**47.3**	**1,490.0**	**640.0**	**2,249.6**
January to December Total	**499.7**	**392.0**	**15,570.0**	**5,192.0**	**21,653.7**

2017	Ground Water Zone 2	Ground Water Zone 5	Treated Water	SFPUC	2017 Monthly Use
Jan	1.1	14.4	636.1	299.8	951.4
Feb	0.1	18.0	530.0	275.5	823.6
Mar	-	-	-	-	-
Apr	-	-	-	-	-
May	-	-	-	-	-
Jun	-	-	-	-	-
Jul	-	-	-	-	-
Aug	-	-	-	-	-
Sep	-	-	-	-	-
Oct	-	-	-	-	-
Nov	-	-	-	-	-
Dec	-	-	-	-	-
Jan to Current Month Totals	**1.2**	**32.4**	**1,166.1**	**575.3**	**1,775.0**
%Savings by Source of Supply	**98%**	**32%**	**22%**	**10%**	**21%**

San Jose Water Co

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	**3,596.6**	**8,344.3**	**-**	**3,191.9**	**15,132.8**
January to December Total	**57,751.1**	**81,242.0**	**-**	**7,785.0**	**146,778.1**

2017	Groundwater	Treated Water	SFPUC	Surface Water	2017 Monthly Use
Jan	2,206.4	4,136.8	-	133.5	6,476.8
Feb	2,156.4	3,499.8	-	79.5	5,735.7
Mar	-	-	-	-	-
Apr	-	-	-	-	-
May	-	-	-	-	-
Jun	-	-	-	-	-
Jul	-	-	-	-	-
Aug	-	-	-	-	-
Sep	-	-	-	-	-
Oct	-	-	-	-	-
Nov	-	-	-	-	-
Dec	-	-	-	-	-
Jan to Current Month Totals	**4,362.8**	**7,636.6**	**-**	**213.1**	**12,212.5**
%Savings by Source of Supply	**-21%**	**8%**	**-**	**93%**	**19%**

Santa Clara

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	**1,537.0**	**657.0**	**426.0**	**-**	**2,620.0**
January to December Total	**14,207.0**	**4,950.0**	**2,460.0**	**-**	**21,617.0**

2017	Groundwater	Treated Water	SFPUC	Other	2017 Monthly Use
Jan	651.6	229.6	186.1	-	1,067.3
Feb	742.7	178.5	157.4	-	1,078.6
Mar	-	-	-	-	-
Apr	-	-	-	-	-
May	-	-	-	-	-
Jun	-	-	-	-	-
Jul	-	-	-	-	-
Aug	-	-	-	-	-
Sep	-	-	-	-	-
Oct	-	-	-	-	-
Nov	-	-	-	-	-
Dec	-	-	-	-	-
January to Current Month Totals	**1,394.3**	**408.1**	**343.5**	**-**	**2,145.9**
%Savings by Source of Supply	**9%**	**38%**	**19%**	**-**	**18%**

Stanford

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	**-**	**-**	**138.0**	**-**	**138.0**
January to December Total	**-**	**-**	**2,397.0**	**-**	**2,397.0**

2017	Groundwater	Treated Water	SFPUC	Other	2017 Monthly Use
Jan	-	-	93.2	-	93.2
Feb*	-	-	-	-	-
Mar	-	-	-	-	-
Apr	-	-	-	-	-
May	-	-	-	-	-
Jun	-	-	-	-	-
Jul	-	-	-	-	-
Aug	-	-	-	-	-
Sep	-	-	-	-	-
Oct	-	-	-	-	-
Nov	-	-	-	-	-
Dec	-	-	-	-	-
Jan to Current Month	-	-	**93.2**	**-**	**93.2**
%Savings by Source of Supply			**32%**		**32%**

Sunnyvale

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	**21.0**	**580.0**	**1,806.0**	**-**	**2,407.0**
January to December Total	**123.0**	**10,418.0**	**11,030.0**	**-**	**21,571.0**

2017	Groundwater	Treated Water	SFPUC	Surface Water	2017 Monthly Use
Jan	10.1	540.8	498.1	-	1,048.9
Feb	12.0	433.4	497.8	-	943.2
Mar	-	-	-	-	-
Apr	-	-	-	-	-
May	-	-	-	-	-
Jun	-	-	-	-	-
Jul	-	-	-	-	-
Aug	-	-	-	-	-
Sep	-	-	-	-	-
Oct	-	-	-	-	-
Nov	-	-	-	-	-
Dec	-	-	-	-	-
Jan to Current Month Totals	**22.0**	**974.1**	**995.9**	**-**	**1,992.1**
%Savings by Source of Supply	**-5%**	**-68%**	**45%**	**-**	**17%**

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 and how it is being collected for this report.

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).

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.

Santa Clara Valley Water District

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