SJWC Recycled Water and Water Conservation Program Activities

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- Over 225,000 service connections
- Service area of 139 square miles that includes the following cities:
  - 80% of San Jose and ~90% of Cupertino
  - Campbell, Los Gatos, Saratoga, and Monte Sereno
  - Unincorporated County pockets
- Wholesaler is Santa Clara Valley Water District
San Jose Water Company

Infrastructure:
- 2,400 miles of main
- 105 wells
- 96 distribution reservoirs
- 2 surface water treatment plants
  - Montevina (Los Gatos Creek Watershed)
  - Saratoga (Saratoga Creek Watershed)
Santa Clara County- 3 primary sources of supply

1. Local
   Surface and groundwater

2. Imported
   Sierra snowpack thru Bay-Delta

3. Recycled
   Highly treated wastewater
**Water Supply in Santa Clara County**

### SCVWD Potable Demands by Retailer

- **SJWC**: 67%
- **Cal Water**: 10%
- **Santa Clara**: 8%
- **Milpitas**: 8%
- **Sunnyvale**: 5%
- **CSJ Muni**: 1%
- **Mountain View**: 1%
- **SCJ Muni**: 1%

### SJWC Sources of Supply

- **Groundwater**: 37%
- **SCVWD Treated Surface Water**: 55%
- **SJWC Treated Surface Water**: 7%
- **SBWR Recycled Water**: 1%
San Jose Water Company
Per Capita Consumption

<table>
<thead>
<tr>
<th></th>
<th>2013 Ave</th>
<th>June 2015</th>
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<tbody>
<tr>
<td></td>
<td>139</td>
<td>107</td>
</tr>
<tr>
<td>gpcd*</td>
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### Indoor Uses

<table>
<thead>
<tr>
<th>Uses</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Toilets</td>
<td>27</td>
</tr>
<tr>
<td>Washer</td>
<td>22</td>
</tr>
<tr>
<td>Shower</td>
<td>16</td>
</tr>
<tr>
<td>Faucet</td>
<td>16</td>
</tr>
<tr>
<td>Leaks</td>
<td>14</td>
</tr>
<tr>
<td>Other</td>
<td>2</td>
</tr>
<tr>
<td>Bath</td>
<td>2</td>
</tr>
<tr>
<td>Dishwasher</td>
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</table>

* Gallons per capita per day

California Urban Water Conservation Council
2015 Drought Resources

California Drought
Please reduce water use by 30%

LATEST NEWS

Comprehensive Drought Information
May 08
With California facing one of the most severe droughts in history...
Read On »

Notice of State Water Resources Control Board Emergency Regulation
Apr 17
Under order of the California Public Utilities Commission, San Jos...
Read On »

New Drought Restrictions
Apr 07
The Governor is calling on all Californians to conserve 25% of 2...
Read On »
Water Allocation Program

- Required by the CPUC
- Establishes monthly allocation using system wide residential average and 30% conservation target
- Base rate applies to all units consumed
- Surcharge(s) applies to all units consumed in excess of allocation
  - Drought Surcharge 1 @ 3.56/unit up to 2013 average
  - Drought Surcharge 2 @ 7.13/unit greater than 2013 average
How are SJWC customers doing in terms of conservation?

Monthly Savings Compared to 2013

- February: 5%
- March: 7%
- April: 25%
- May: 36%
- June: 35%
- July: 38%
SJWC Water Conservation Programs

- Free Residential and CII water audit program
- Free high efficiency showerheads and aerators
- High efficiency washer and toilet rebate program
- Landscape rebate program
  - Irrigation hardware
  - Landscape (turf) conversion
- School Education Program for 5th grade students
- Public drought tolerant demonstration garden
- Landscape education website
What’s On Tap?

- Home Water Use Reports
- Large Landscape Water Budgets
- Advanced Metering Infrastructure pilot test
Current water use restrictions:

New rules effective June 15, 2015 include (partial list):

- Customers must fix leaks, broken irrigation systems, or broken plumbing fixtures within 72 hours if notified to do so by San Jose Water Company.

- Watering days: Do not water outdoors more often than two (2) days per week. Even numbered addresses water on Tuesday and Friday and odd numbered addresses as well as properties with no address water on Monday and Thursday.

- No watering between 10:00 AM and 8:00 PM and irrigation cannot exceed fifteen (15) minutes per zone per day...

- No irrigation can occur regardless of method that results in runoff.

- No use of drinking water for washing driveways, sidewalks, and other hard surfaced, non-porous areas.

- No washing of cars, buses, boats, aircraft, trailers or other vehicles, except at a commercial car washing facility that utilizes a re-circulating water system to capture and reuse water.

- No use of potable water for construction purposes, including washing streets, backfill, and dust control unless no other source of water or other method can be used.
Current water use restrictions...

- Recycled water exempt from restrictions on number of days per week and minutes per zone irrigation. Still need to adhere to no runoff rules.

- No potable water to be used for construction purposes within city of San Jose. SJWC offers a recycled water portable meter program to connect to access points on SBWR system.

- SJWC allocation program does apply to customers with dedicated irrigation meters (potable water).
Recycled Water

San Jose Water Company has been expanding the existing South Bay Water Recycling pipeline network. SJWC now owns, operates and maintains recycled water infrastructure as well as SBWR.

Work to date:
- Five pipeline alignments: G, H, C, M, N.
- Thus far 87 customer sites designed and connected to these alignments.
- Primarily irrigation sites, but also some industrial and cooling tower sites.

Prior general rate case (GRC) with CPUC included funding for customer retrofits as well as the pipeline construction. This is also pending for the 2016 GRC.
## SJWC – Recycled Water Pipeline Alignments

<table>
<thead>
<tr>
<th>Alignment</th>
<th>Customers</th>
<th>Demand</th>
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<tbody>
<tr>
<td>G</td>
<td>5</td>
<td>128</td>
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<tr>
<td>H</td>
<td>30</td>
<td>415</td>
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<td>R</td>
<td>21</td>
<td>119</td>
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<tr>
<td>M</td>
<td>3</td>
<td>18</td>
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<tr>
<td>L</td>
<td>10</td>
<td>753</td>
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<tr>
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</tr>
<tr>
<td>C</td>
<td>115</td>
<td>560</td>
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<tr>
<td>N</td>
<td>4</td>
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<td>D</td>
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<td>77</td>
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<tr>
<td>J</td>
<td>29</td>
<td>107</td>
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<tr>
<td><strong>OVERALL TOTAL</strong></td>
<td><strong>445</strong></td>
<td><strong>7,879</strong></td>
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2015-2017 Proposed Recycled Water Pipeline Alignments

- 3 new pipeline alignments proposed for 2015-2017 (A, R, D)
- 112 customers
- 10.6 miles of additional distribution system pipelines
- Proposed expenditures, subject to CPUC approval:
  - $~16.5M for pipeline construction
  - $~7M for retrofit design and construction
- Commercial/industrial/institutional customers
2015 Project: Alignment A

FIGURE A
SAN JOSE WATER COMPANY
RECYCLED WATER MASTER PLAN
ALIGNMENT A: CHARCOT AVENUE
2015 Project: Alignment R
2017 Project: Alignment D
Thank You

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