



**TOWN OF PORTOLA VALLEY**  
***Sustainability and Environmental Resources Committee Meeting***  
**Monday June 18, 2018 10:30 AM to 12:30 PM**  
**Town Hall - Conference Room**  
**765 Portola Road, Portola Valley, CA 94028**

**SUSTAINABILITY AND ENVIRONMENTAL RESOURCES COMMITTEE MEETING MINUTES**

**Call to Order:** The meeting was called to order at 10:55 AM.

**Roll Call:**

Committee Members:

Present: Al Sill, Loverine Taylor, Jim Lussier, Mia Di Giovanni, Anne-Laure Cuvilliez, Delle Maxwell, Stefan Unnasch, Brandi de Garreaux, Maryann Derwin

Absent: Rebecca Flynn, Ali Taghavi

Other Attendees: Rebecca Sale and Zoria Atayde from GreenWaste, Judy Murphy from the Conservation Committee

**Oral Communications:**

- Loverine – attended “Navigating Bay Area Water: Emerging Technology Solutions”. A summary from Loverine is attached at the end of the minutes. At the conference there was a heavy focus on gray and black water conversions. The water purification facility in Alviso is available for a tour.
- Jim – at Menlo Country Club Hetch Hetchy water is used for irrigating the golf course. They are trying to figure out a good way to convert from potable to non-potable water for irrigation.

**Approval of Minutes – April 16, 2018**

April 16, 2018 minutes were approved as written.

**Update from GreenWaste:**

GreenWaste is trying to ramp up involvement with local communities.

They currently use 100% renewable diesel to fuel their fleet. They do not use CNG because CNG needs larger motors and that is not compatible with the smaller vehicles

needed to go up steep narrow driveways. They are looking at acquiring their first electric truck in 2019.

GreenWaste would like to donate a “lose your lawn” give-away at next year’s Garden Tour.

The GreenWaste facility in Alviso is also available for a tour.

## **Old Business:**

### **Updates from Brandi:**

She is maintaining close tabs with Cal Water on the upcoming Rate Case. The Rate Case will be submitted in July.

She is working on a proposal for a micro grid for the Town Center. PG&E has sent a letter stating that in the future they may cut off electricity in high wind events to minimize fire risk. So we may experience more electricity outages in the future.

Town Center Campus updates:

- HVAC audit - may restructure system
- Lighting retrofit – plan to change out all light bulbs to LED with a few exceptions

The Home Energy Analysis program is just about ready to launch; a letter is almost ready to be sent out. Brandi will call a subcommittee meeting of the Energy Efficiency Subcommittee to get their involvement.

We are just about to the point where testimonials for the Cal Water Rate Case will need to be prepared.

Brandi is working on a Climate Action Plan for Portola Valley. This is a plan to reduce greenhouse gas emissions by 2030.

### **Updates from Maryann:**

She is a member of the Resource Management and Climate Protection Committee of C/CAG. They are focused on an update to their 2025 plan with a focus on energy and water.

She has a seat on the San Mateo Countywide Water Coordination Committee. They are working on how to create an overall water management agency for San Mateo County.

For the ADU she is constructing at her home, she is installing full gray water recycling. It is fairly complex and expensive. It uses lots of area and feeds into her rainwater capture system.

The Rachio Smart Irrigation Controller has an updated version with available leak detection.

**Sub-Committee Updates:**

No updates, no meetings yet. Brandi will be contacting us

**Charter Amendment – Bimonthly Meetings and Mission:**

Deferred to next meeting.

**Budget for 2018-9 Fiscal Year:**

The Committee budget is in the approval process with the Town Council.

**New Business:****Correspondence Regarding Plastic Straw Ban:**

Can we ban the use of plastic straws in town commercial establishments? The Farmers Market has already banned plastic straws. Plastic straws are bad since they are small and hard to extract when the waste is being processed. And some straws make their way into the ocean. In PV, it's not really a litter issue, but it does hurt wildlife. Should we work on this? – we need to have a priority list for the committee.

**Next Meeting – Date/Time and Topics:**

August 20, 2018 10:30pm to 12:30pm (Al will miss this meeting, Mia will act as Secretary)

**Announcements:**

- Our first PV Summer Concert is on Thursday 6/21 at the Town Center
- Saturday 6/23 is Emergency Preparedness Radio Day at the Town Center

**Adjournment:**

Meeting adjourned at 12:10 pm

Navigating Bay Area Water: Emerging Technology Solutions (Slides on SSU Website)  
May 31, 2018

~150 attendees: State, Local, Regional elected/appointed officials, entrepreneurs, volunteers etc, etc. Networking opportunity.

Keynote: D. Polhemus: Deputy Director CA State Water Resources Control Board. He navigates a minefield.

SM Co: 92% of Water imported  
SC Co. 65% imported

Only 3-5% water recycled 510MGal of waste water goes into SF Bay DAILY! This is main focus of symposium.

SF Co. 2012 Non-potable Water Ordinance. On-site recycling. Done at building level. 90% efficient. Paid for by developer. At present mostly, grey water recycled. Used for toilets and landscape. Eventually black water will be targeted.  
Uses current technology: settling tanks, filters, UV etc. Requires lots of space. One developer converted parking garage to treatment facility.

CA water delivery systems: FRACTURED  
7500 Public Water Systems  
3000 Community Water Systems ; 77% of CWS serve < 1000 connections.

Main Water sources in CA

Snow pack. Climate change = more rain; less snow 15 MAFt/yr  
Reservoirs: Sacramento 13.5 MAFt/yr  
San Joaquin 11 MAFt/yr

Best data presentation: H. McCann Western Regional Climate Center

Water use varies radically by region. 180 gal/capita/da = average use.  
Environment 50% Takes biggest hit in drought  
Farms 40%  
Cities 10%

Facebook 90,000 gal/da = toilet flushes New campus conundrum: if want roof gardens have to reuse grey water!!  
New campus 5 x 60,000 gal collection tanks. 90,000 gal/da reprocessed. Annual savings is  $17 \times 10^6$  gal.

SF Salesforce Tower (181 Fremont ) Seems to be a poster child for recycling grey water. Retrofit uses Aquacell technology.

Stanford U. 80% of water returned to community.  
Did I hear correctly?? 11.1 B gal taken in (year?)  
Goal for SC Data Center 90% reduction in water use. Convert to air cooled systems.

General factoids. Bay Area = 6 counties = 6M people  
Bay Area water worth 5.5 B\$

By products valuable. Sludge source of CH<sub>4</sub> for energy

Crown jewel of SC Valley Water District: In Alviso Silicone Valley Advanced Water Purification Center. Provided a chance to overcome your revulsion: Large table with cups of black water treated water. Drink up. Go on video to proclaim "it's great!"  
Key to success: AOP = Advanced Oxidative Process. Relies on hydroxyl ions. My question: Does the AOP get rid of molecules like opioids? These molecules Are Chemically Very Stable.

Skipped wine.