

Overview of Central San's Pollution Prevention Program

**Colleen Henry
BAYWORK Training A La Carte
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Pollution Prevention is simple...right?

- Identify the Pollutants of Concern
- Ask, what can we do to prevent them?
- Get out there and prevent them!

(Note: if it were this simple, my presentation would be done)

The Fact is...Pollution Prevention takes a village



Communication Services



Laboratory



Environmental Compliance



Household Hazardous Waste Facility

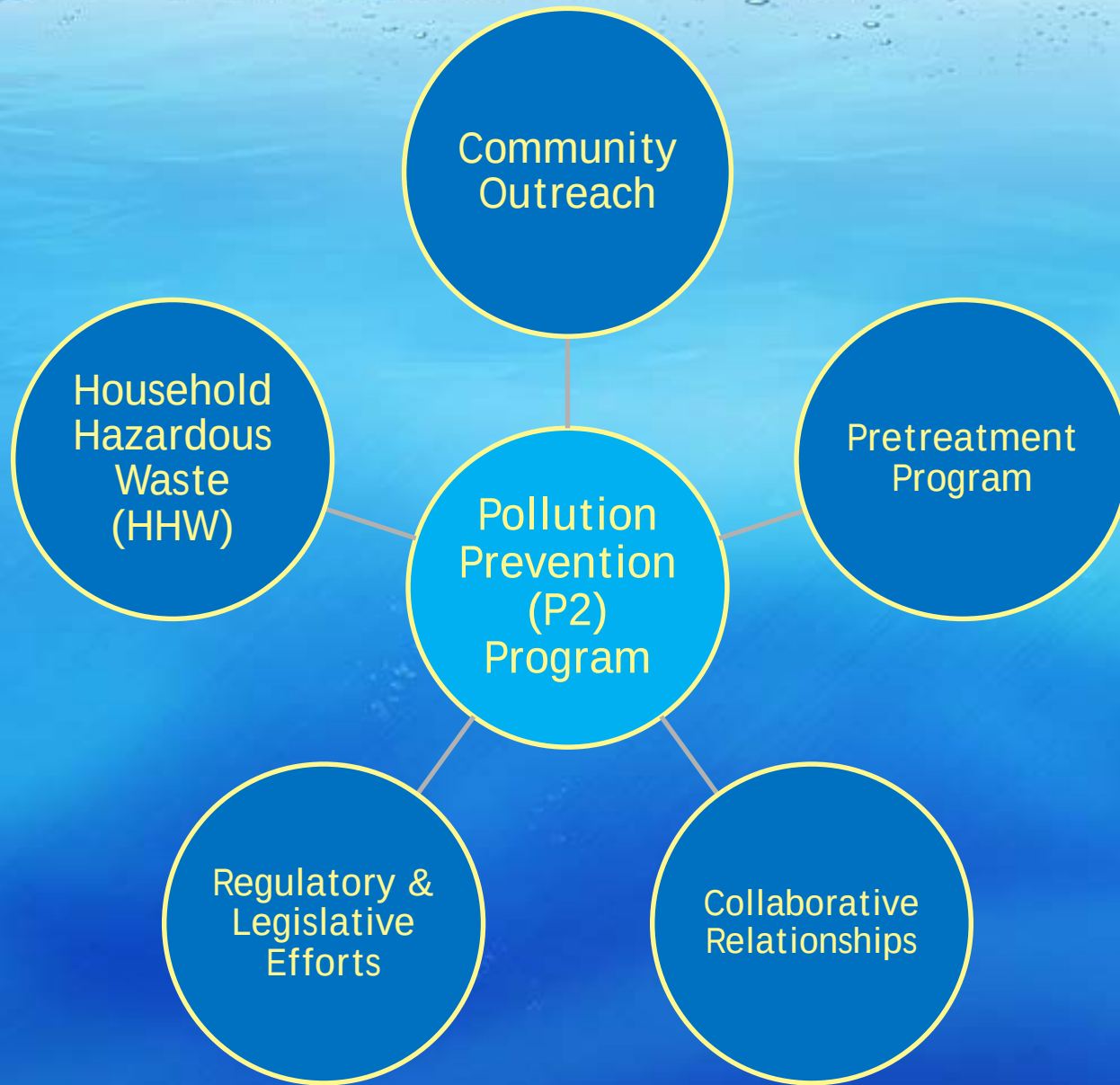


Regulatory Compliance



Central San's 2018 Priority Pollutants of Concern

- National Pollutant Discharge Elimination System Permit Limits
 - Acrylonitrile
 - Ammonia
 - Dioxins
- Regional Requirements
 - Copper
 - Cyanide
 - Mercury
 - PCBs
 - Selenium
- Contribute to Sanitary Sewer Overflows
 - Fats, Oils & Grease (FOG)
 - Flushable & Non-Dispersible Products
- Pollutants moved to the "Watch List"
 - Bis-2(ethyl-hexyl)phthalate



HOUSEHOLD HAZARDOUS WASTE COLLECTION FACILITY



HHW Collection Program

- Collected over 2 million pounds (lbs) of HHW
- Collected over 38 lbs of mercury waste
 - 393,956 feet of fluorescent lamps
 - 848 thermometers
- Collected over 26,000 lbs of pesticides
- Collected about 16,880 lbs of pharmaceuticals
 - Over 127,000 lbs since program inception (2009)

PHARMACEUTICAL DISPOSAL

More than **127,000 lbs.** of pharmaceuticals collected since the program began in February 2009!

- Town of Alamo
- City of Clayton
- City of Concord
- Town of Danville
- City of Lafayette
- City of Martinez
- Town of Moraga
- City of Orinda
- City of Pleasant Hill
- City of San Ramon
- City of Walnut Creek
- Contra Costa County



Did I mention paints?

Pretreatment Program

- In 2018, conducted 1,265 inspections at 918 businesses
- Administer 781 discharge permits
- Monitor pollutants in our collection system
- Implement our Mandatory Dental Amalgam Program



Community Outreach



Delta Discovery
Voyage



Community Outreach

- Pollution Prevention articles in our *Pipeline newsletter* mailed to all customers
- Reached over 5,700 students through our student education programs
 - Water Wizards, Sewer Science & Delta Discovery
- Public Service Announcements
 - Facebook, Twitter, YouTube
 - Plastics, non-dispersibles, FOG, paints

Collaborative Partnerships



CONTRA COSTA
CLEAN WATER
PROGRAM



Collaborative Partnerships



- Contra Costa Green Business Program
 - 5 new businesses certified (340 total)
- Contra Costa Clean Water Program
 - 1,029 inspections at 832 businesses
- Sustainable Contra Costa
 - Visionary partner
 - Pollution Prevention Awards

2018 Central San Pollution Prevention Awards Program

➤ Sustainable Contra Costa's Annual Awards Gala – Sept. 20, 2018

- Recycled Water Champions
- Water Quality Community Partners
- Pollution Prevention Partners
- Pollution Prevention Awards



Recycled Water Champions



Recycled Water Business Champions



The Conco Companies

Conco has been using Central San recycled water for the past 11 years (since 2007) for washing vehicles, which translates into saving over 15 million gallons of potable water for human consumption.

Recycled Water Business Champions



The Veranda



Veranda retail complex has been connected to Central San's recycled water system since April 2018. Veranda's exclusive use of drip irrigation, together with drought tolerant plants; and extensive use of mulching and bioswales, makes Veranda a role model for water efficiency and water conservation for commercial landscapes.

Recycled Water Citizen Champion



Jack Humphrey, of Martinez, is Central San's 2018 Recycled Water Citizen Champion. From July 2017 to July 2018, Mr. Humphrey's visited the Residential Recycled Water Fill Station 246 times and used more than 65,000 gallons of water. An avid gardener, Mr. Humphrey often visits the fill station several times a day and uses the recycled water to feed his many plants and half-acre lawn.



Water Quality Community Partners



Water Quality Community Partners

~ Criteria ~

- Have a discharge permit with Central San
- Maintain full compliance with the permit, sanitary sewer and storm water regulations
- Recognition is for consecutive years of compliance

Water Quality Community Partners

~ Recognition ~

Years of Compliance	Number of Businesses
1-5 Years	28
6-10 Years	12
11-15 Years	3
16+ Years	1
Total	44

Each business received a Certificate recognizing their achievement

Pollution Prevention Partners



Central San recognized a number of Ace Hardware stores this year as long-term Pollution Prevention Partners. These stores go above and beyond by collecting fluorescent lamps and household batteries at their retail locations. Since 2008, more than 458,115 feet of fluorescent lamps and more than 136,868 pounds of household batteries have been conveniently collected locally and properly disposed of by Central San.

Pollution Prevention Partners

Alamo Ace Hardware - Bill's Ace Hardware - Walnut Creek Ace
Walnut Creek Ace - Alamo Ace Hardware



Central Contra Costa Sanitary District

2018

Pollution Prevention Awards

PowerHouse Designz

2655 Monument Blvd H, Concord



PowerHouse Designz practices Pollution Prevention by installing brake pads with less hazardous compounds, using organic coolant, storing new vehicle fluids in paper cardboards instead of plastic containers, and using 2 different mop buckets to capture oil and coolant spills separately (which then are transferred to their respective storage drums). Due to these practices, there is no discharge to the sewer.

Surfside Kids Dental

675 Contra Costa Blvd, Pleasant Hill



Surfside Kids Dental practices Pollution Prevention by rarely placing amalgam, off-hauling all amalgam wastes, maintaining their amalgam separator on a routine schedule and using all digital x-rays. Management is proactive in following sewer regulations and staff are well trained in Best Management Practices (BMPs).

Regulatory & Legislative Efforts

- Support Regulatory & Legislative efforts
 - Via California Association of Sanitation Agencies (CASA) www.casaweb.org
 - Via the Bay Area Pollution Prevention Group (BAPPG) www.baywise.org
 - Directly
- Examples
 - Current: Assembly Bill 1672, Solid Waste: Flushable Products
 - Ongoing: Pesticide regulatory tracking
 - Complete: EPA requirement to properly label Copper-based pesticides

2019 Pollutants of Emerging Concern

- Pesticides
- Flame retardants
- Nanoparticles
- Nonylphenol Ethoxylates
- Pharmaceuticals and Personal-care products
- Microplastics
- Air toxics

**Questions or
Comments?**

