

# SB 1383

## Procurement of Recovered Organic Waste Products

July 13, 2021



CITY OF  
CHULA VISTA



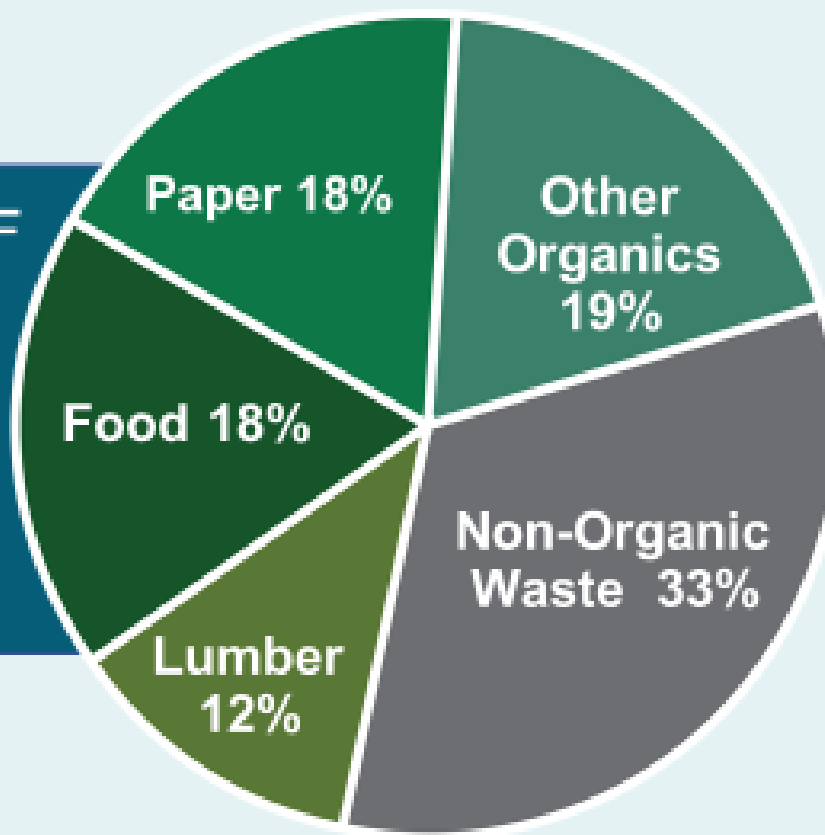
Office of Sustainability

An Overview of SB 1383's  
Organic Waste Management  
Requirements



# Organic Waste Is the Largest Waste Stream in California

CALIFORNIA DISPOSED OF APPROXIMATELY **27** MILLION TONS OF ORGANIC WASTE IN 2017



California's Waste Stream

IN CALIFORNIA, MILLIONS ARE

## FOOD INSECURE

1 IN 5 CALIFORNIANS

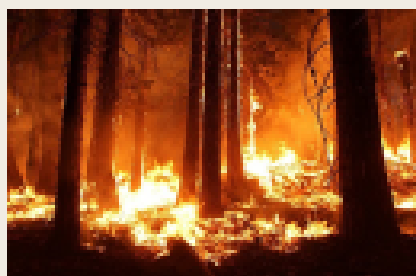


CALIFORNIA THROWS AWAY  
**MORE THAN 6 MILLION TONS**  
OF FOOD WASTE EVERY YEAR!

# CLIMATE CHANGE NEGATIVELY IMPACTS CALIFORNIA

Landfilled Organic Waste Emits  
**Methane Gas—**  
**A Super Pollutant**  
More Powerful than CO<sub>2</sub>

Methane Gas Contributes to  
Climate Change in California



**CALIFORNIA**  
is already experiencing  
the impacts of  
**CLIMATE CHANGE**

IN 2015 THE DROUGHT COST THE  
AGRICULTURE INDUSTRY IN THE  
CENTRAL VALLEY AN ESTIMATED  
\$2.7 BILLION & 20,000 JOBS

# Jurisdiction Responsibilities

**Provide Organics  
Collection Services to All  
Residents and Businesses**



**Conduct Education and  
Outreach to Community**



**Secure Access to  
Recycling and Edible  
Food Recovery Capacity**



**Establish Edible Food  
Recovery Program**



**Procure Recyclable and  
Recovered Organic  
Products**



**Monitor Compliance  
and Conduct  
Enforcement**



# SB 1383 EXPANDS CALIFORNIA'S CLOSED LOOP ORGANICS RECYCLING ECONOMY

Demand for Recovered Organic Waste Products Drives Infrastructure Investments



Procuring Recovered Organic Waste Products is Vital to Closing the Loop





# UTILIZING RECOVERED ORGANIC WASTE PRODUCTS

## Compost & Mulch

- City Parks
- Landscaped Center Divides
- Community or School Gardens
- Erosion Control Along Roadways
- City Hosted Compost and Mulch Giveaways

## Renewable Fuel

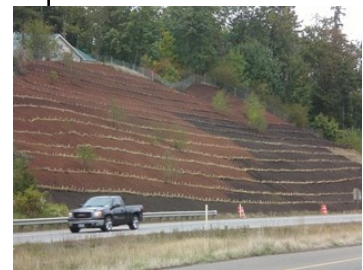
- City-owned Vehicles
- Contracted Waste Haulers
- City Bus System

## Renewable Elec

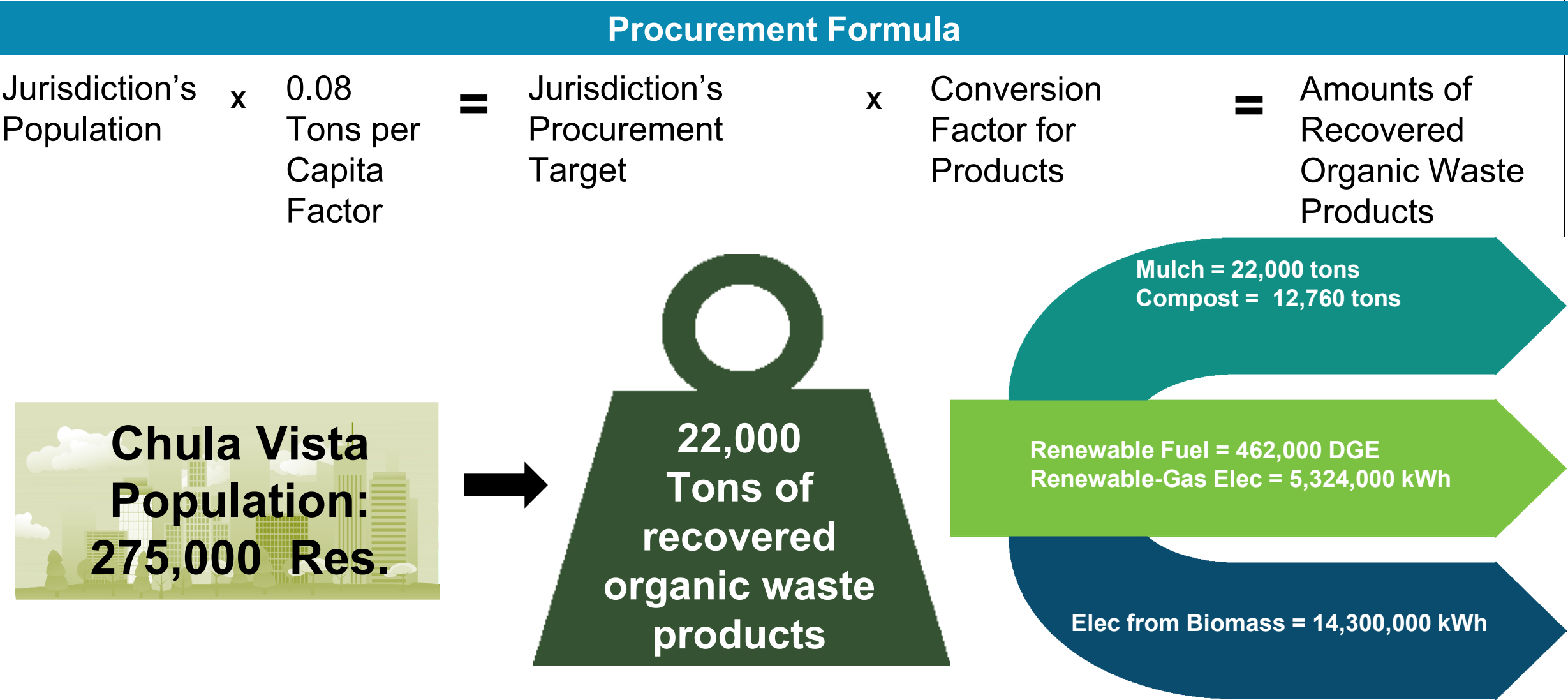
- Organics Recycling Facility
- Buildings or Infrastructure

## Renewable Heat

- Space Heating
- Cooking
- Digesters



# PROCUREMENT OF RECOVERED ORGANIC WASTE PRODUCTS



# PROCUREMENT OPTIONS

## Direct Procurement

Jurisdictions can procure recovered organic waste products directly for use or giveaway.



Compost for City-Managed Public Landscaping

RNG for City-Owned Vehicles

POTW Renewable Gas for On-Site Electricity Needs

## Procurement Does NOT Necessarily Mean Purchase!

Jurisdictions that own an organics recovery facility can procure end products for city/county use.

## Direct Service Provider

Jurisdictions can meet their procurement requirement by contracting with a service provider that uses recovered organic waste products like compost or renewable natural gas.



Waste Haulers

Landscape Services

Transportation Services

## This Can Be a Paper Transaction.

There are no requirements that a jurisdiction's procurement must be of products produced within your jurisdiction or produced from organic feedstock materials collected within your jurisdiction.



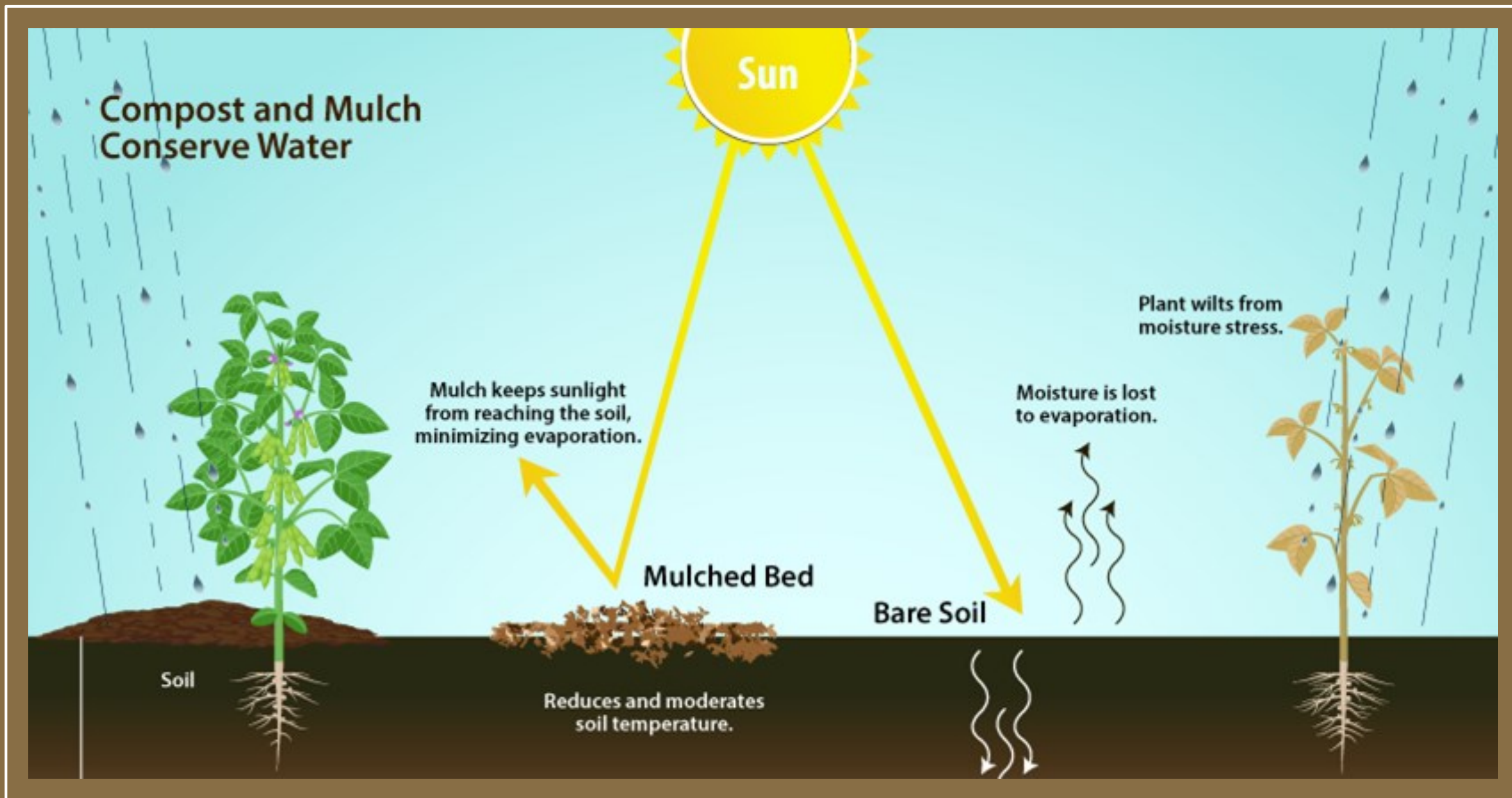


**1.5 Million Tons**  
**COMPOSTABLES/ORGANICS**  
Landfilled Diverted



**3 to 4 Million Cubic Yards**  
**COMPOST AND MULCH**  
Recovered Products





# Compost Best Management Practices

**Aligns with Climate Action Plans** & complies with state requirements.

## Improves Stormwater Quality and Reduces Erosion

- Significantly reduces runoff volume
- Nutrients and pollutants are decomposed by naturally occurring microorganisms

## Carbon Benefits

- Encourages healthy soils → **carbon sequestration!**
- Promotes establishment of vegetation

## Improves Soil Structure and Nutrient Content

- Better plant health. Reduces need for chemical fertilizers, pesticides, and herbicides





# Compost Socks



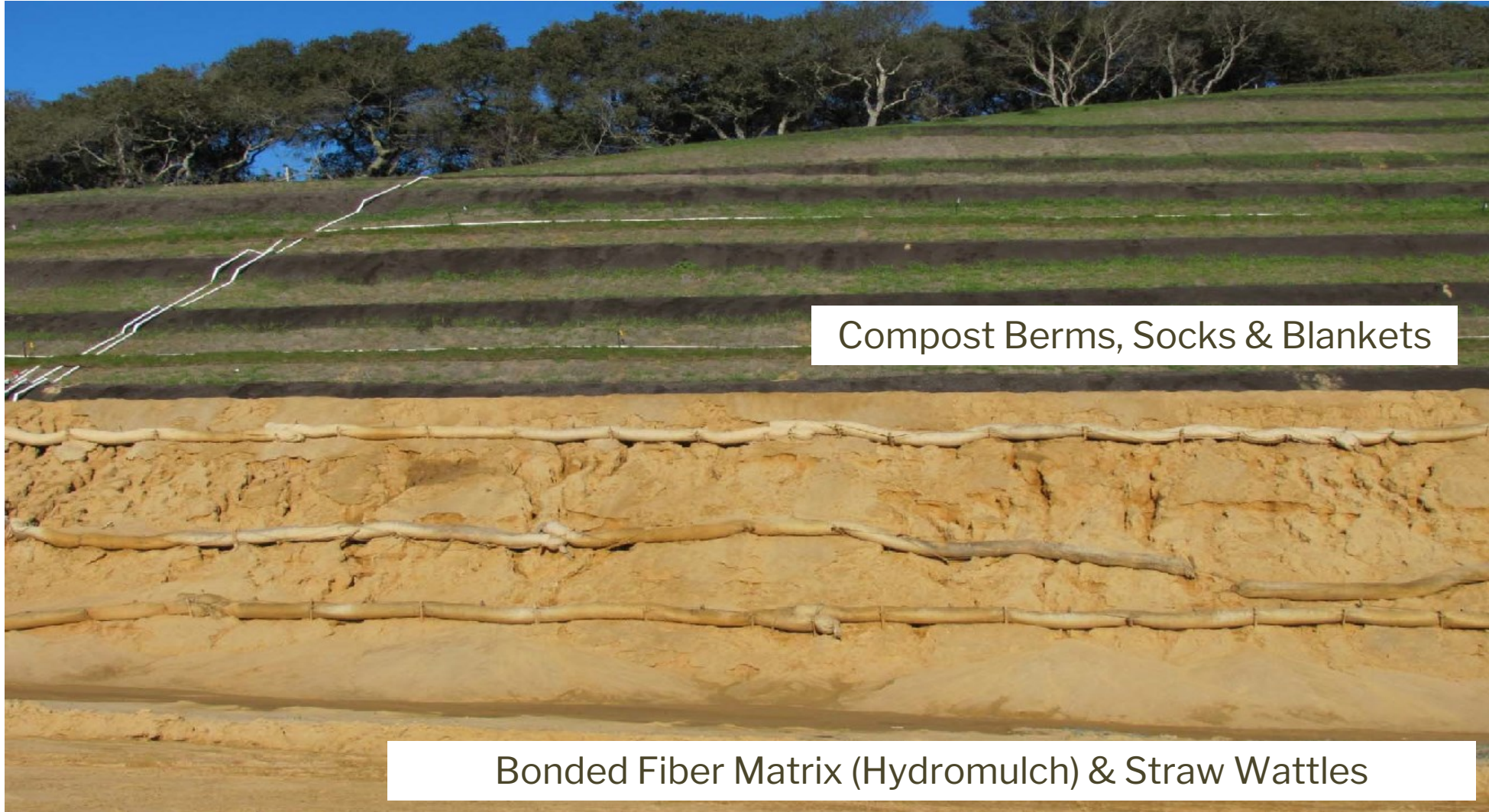
Lilac Fire- Construction BMP



1 Year Later



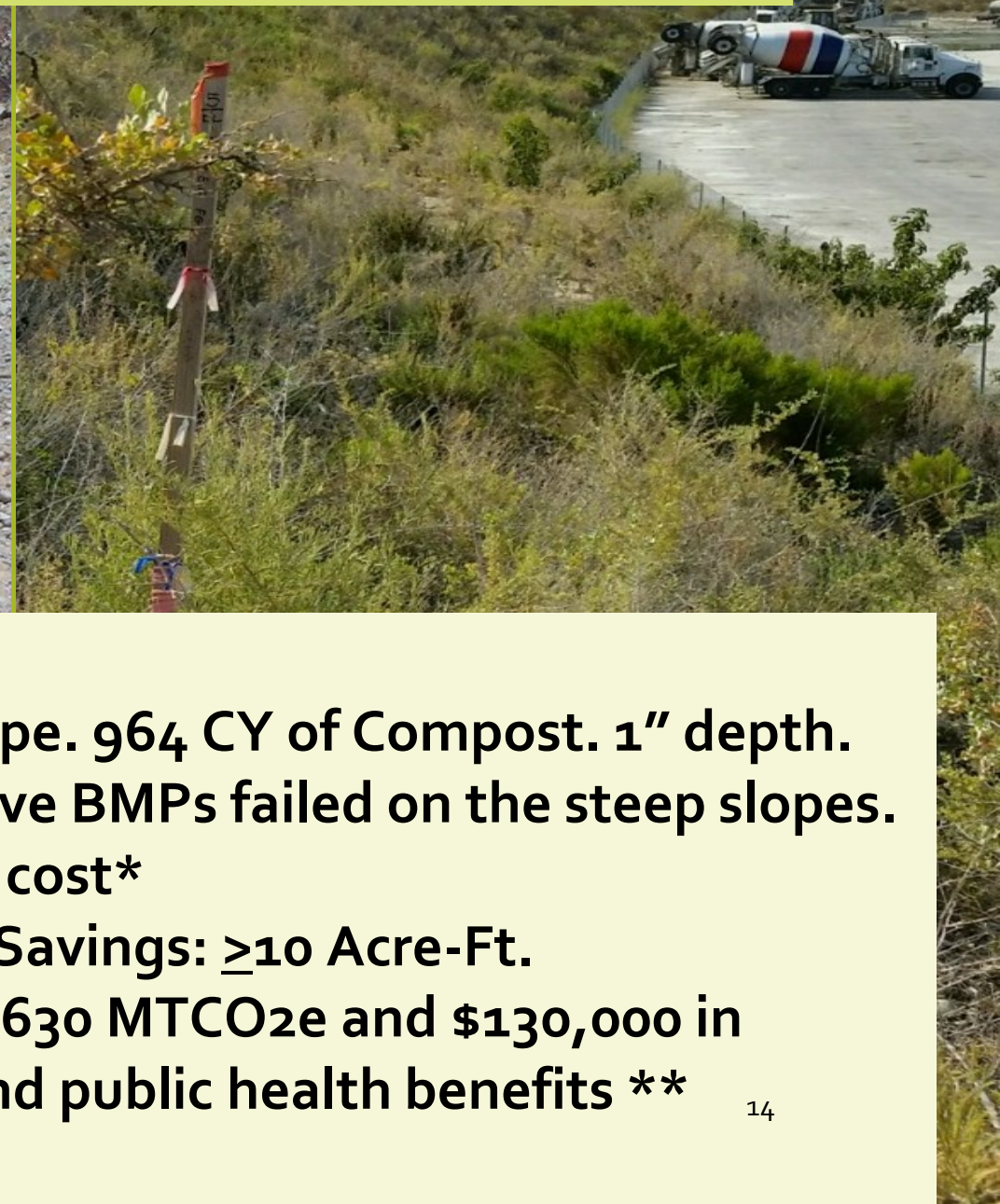
# Compost Blanket





# High Wall Project

## Seeded Compost Erosion Control Blanket



### Project Highlights:

- 7 acres severe slope. 964 CY of Compost. 1" depth.
- Trials of alternative BMPs failed on the steep slopes.
- \$52,000 installed cost\*
- Projected Water Savings:  $\geq 10$  Acre-Ft.
- Carbon Benefits: 630 MTCO<sub>2</sub>e and \$130,000 in environmental and public health benefits \*\*

14



# NEXT STEPS

- 1. Evaluate projects using a Full Cost Analysis** through use of tools and case studies to demonstrate economic and environmental value of best management practices
- 2. Develop Policy and Performance Based Procurement** updates to address erosion control & water quality project specifications using locally produced compost/mulch
- 3. Communications and Training** to staff and contractors on operational, environmental and economic benefits of using compost/mulch
- 4. Develop an inventory** of your agency's current compost/mulch purchases and estimate your procurement target using the CalRecycle's procurement calculator

**Manuel Medrano,**  
**Environmental Services Manager**  
**mmedrano@chulavistaca.gov**  
**(619) 585-5766**

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