

LOS ANGELES COUNTY  
**COUNTYWIDE HOUSEHOLD HAZARDOUS  
WASTE MANAGEMENT PROGRAM**



Presented by:  
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“ WE LEAD, INSPIRE, AND SUPPORT  
OUR COMMUNITIES TOWARD A  
HEALTHY, TOXIC-FREE FUTURE.”



# WHAT IS HOUSEHOLD HAZARDOUS WASTE (HHW) ?



“E-waste” is applied to consumer electronic equipment that is no longer wanted.

- Computers, printers, monitors
- Televisions, VCRs, radios, stereos
- Cell phones, telephones
- Microwave ovens, fax machines, and electronic games.



These devices often contain heavy metals like lead, cadmium, copper, and chromium or potentially toxic substances.

# WHAT IS HOUSEHOLD HAZARDOUS WASTE (HHW) ?



“U-waste” is hazardous waste generated by several sectors of society, rather than a single industry or type of business :



- Common Batteries - such as AA, AAA, C cells, D cells and button batteries (NiCad, Lithium)
- Compact Fluorescent Tubes (CFL)/Mercury-containing Lamps – such as high intensity discharge (HID), sodium, and neon bulbs.
- Mercury-Containing Devices - such as thermostats, switches, and thermometers.

These products contain corrosive chemicals, mercury vapor.



# MANDATES & REGULATIONS



## *Assembly Bill 939*

In 1989, Assembly Bill 939 (AB939) was adopted

California Integrated Waste Management Act of 1989.

- Imposed a series of mandates on California counties and cities to reduce their solid waste disposal rates by 50 percent from 1990 levels.
- Required each city and county to prepare and adopt a Source Reduction and Recycling Element (SRRE) that includes a household hazardous waste component.
- Authorized local jurisdictions to impose fees based on the types or amounts of solid waste generated to be used to pay for waste management plans.
- The County established the Solid Waste Management Fund.
- Countywide Household Hazardous Waste Management Program Created

# THE COUNTYWIDE HHW MANAGEMENT PROGRAM



## Countywide HHW Management Program



Mobile  
Collection  
Events



Permanent  
Collection  
Centers



Special  
Collection  
Programs



60 Events  
Annually



- 9 Full Permanent Centers
- 9 Used Motor Oil Centers



- Sharps Collection
- Battery Collection
- Door-to-Door Collection

# THE COUNTYWIDE HHW MANAGEMENT PROGRAM



## Mobile Collection Events

- Collaborative effort with public/private entities
- Event held almost every weekend rain or shine
- 60 Sites and events throughout the County in Cities and Unincorporated Areas
- In or near your city about 4 times a year



## Permanent Collection Centers

- Antelope Valley Environmental Collection Center (AVECC) – Palmdale
- EDCO Environmental Collection Center – Signal Hill
- City of Los Angeles (7 sites)



# THE COUNTYWIDE HHW MANAGEMENT PROGRAM



## Home-Generated Sharps Waste Program

- Partnerships with Public Health (14 clinics); Goodwill stores (100+ distribution sites); Sheriff's Department (21 stations), Community Senior Services, plus some cities
- Mail-back program available to meet ADA standards
- Encourage local pharmacies, clinics and hospitals to do their part
- Encourage participation by local senior centers

## Household Battery Program

- Partnerships with County Public Library (16 library locations) and some cities
- Encourage local home-improvement stores to do their part



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## CURRENT PARTNERSHIPS



Public Works partners with :

- County Sanitation Districts - conduct mobile events
- Cities of Long Beach & Signal Hill and EDCO Recycling and Transfer Facility – EDCO
- City of Los Angeles – Program & Permanent Centers
- Waste Management – AVECC

# PROGRAM FUNDING SOURCES



Funding Sources	Percentage
Solid Waste Management Fees	80%
Unincorporated County Area Landfills	18%
Other (Grants)	2%



## 2011 COUNTYWIDE HOUSEHOLD HAZARDOUS WASTE MANAGEMENT PROGRAM REEVALUATION

*Compared Performance  
Measures for Permanent &  
Mobile Collection Events of*

Los Angeles County

Orange County

Riverside County

San Diego County

*Evaluated Various Collection  
Methods such as*

Mobile Events

Permanent Events

Semi-Permanent

Events Door-to-Door Events

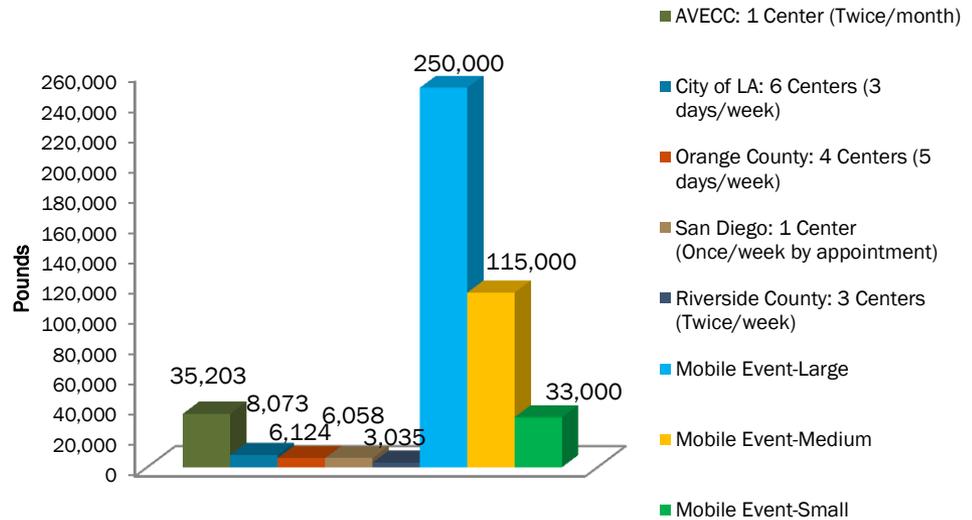
# EVALUATION RESULTS



Mobile collection events collect more HHW per event than permanent centers.

Small Mobile events capture as much HHW as AVECC twice a month

Amount of HHW Collected per Event



Note: All data collected for FY 09/10.

# EVALUATION RESULTS

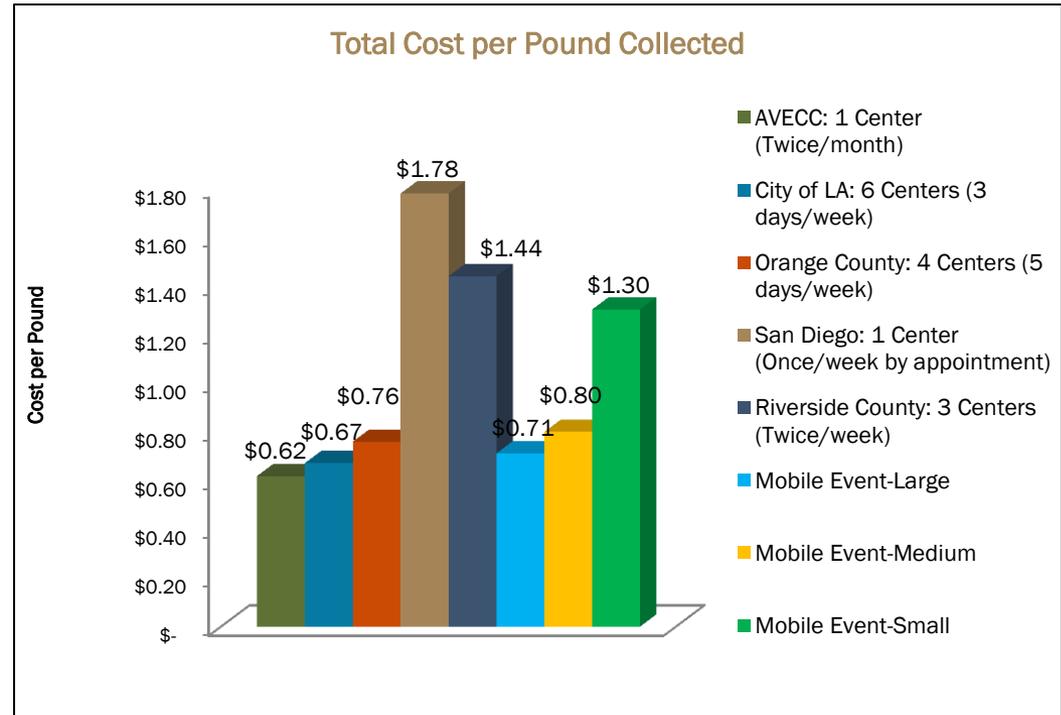


Permanent centers are generally more efficient on a cost per pound basis than mobile events.

The cost per pound for the Permanent Centers ranges from \$0.62 to \$0.76. While mobile events range from \$0.71 to \$1.30, depending on the size of the mobile event.

Permanent centers are less efficient than mobile events as the complexity of the operation increases.

High administration cost  
Frequency of Operation



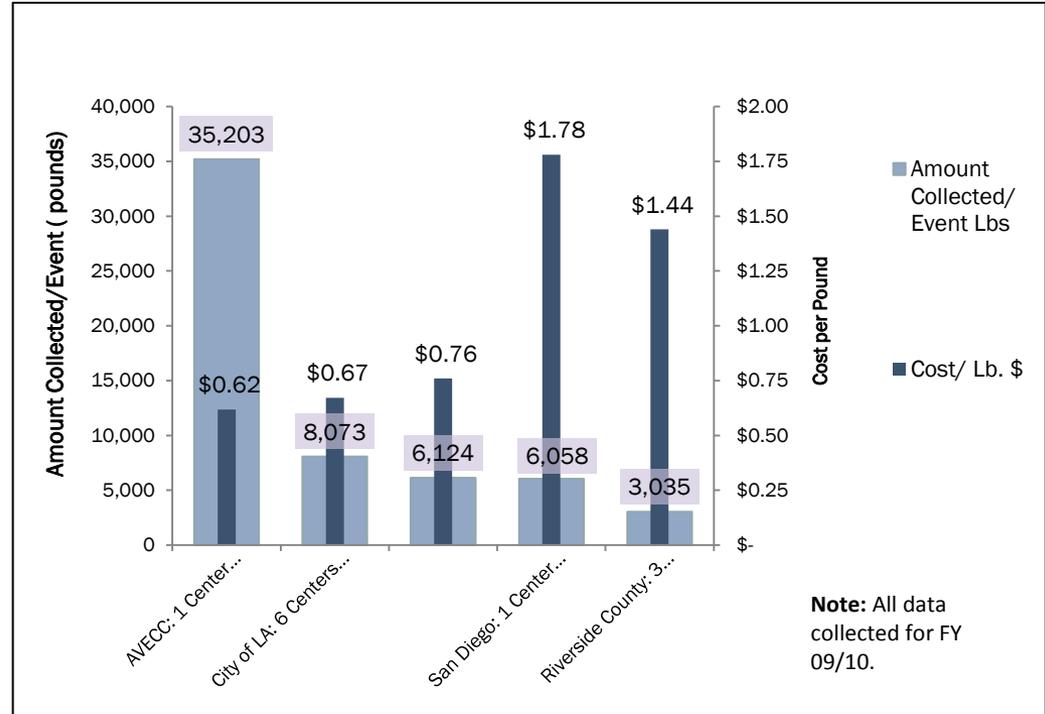
# EVALUATION RESULTS



*Permanent center efficiency decreases as event frequency increases.*

Amount collected per event decreases.

Labor and Administrative costs increase as the cost per pound collected increases



## EVALUATION CONCLUSION & RECOMMENDATIONS



*“Based on the evaluation of the different program methods, permanent centers offer the most benefits to the County with a high level of service, lower operation costs.”*

High initial cost to develop permanent centers. Cost could be offset through

- Partnerships with Cities and operating facilities
- Number of days open and frequency of operations.

### **MIXED-MODEL APPROACH**

- Strategically expand the number of permanent
- Continue to offer mobile collection events
- Reduce the number of mobile collection events in or near the new permanent centers

## PROPOSED PERMANENT CENTERS



**Agoura Hills Flood Yard**

**Altadena Fleet/Road Yard**

**Brackett Airport**

**El Monte Airport**

We lead, inspire, and support  
our communities toward a  
healthy, *TOXIC*-free future.”

QUESTIONS?



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