



# Waste Composition Study

## Natural Resources and Culture Committee

February 29, 2012

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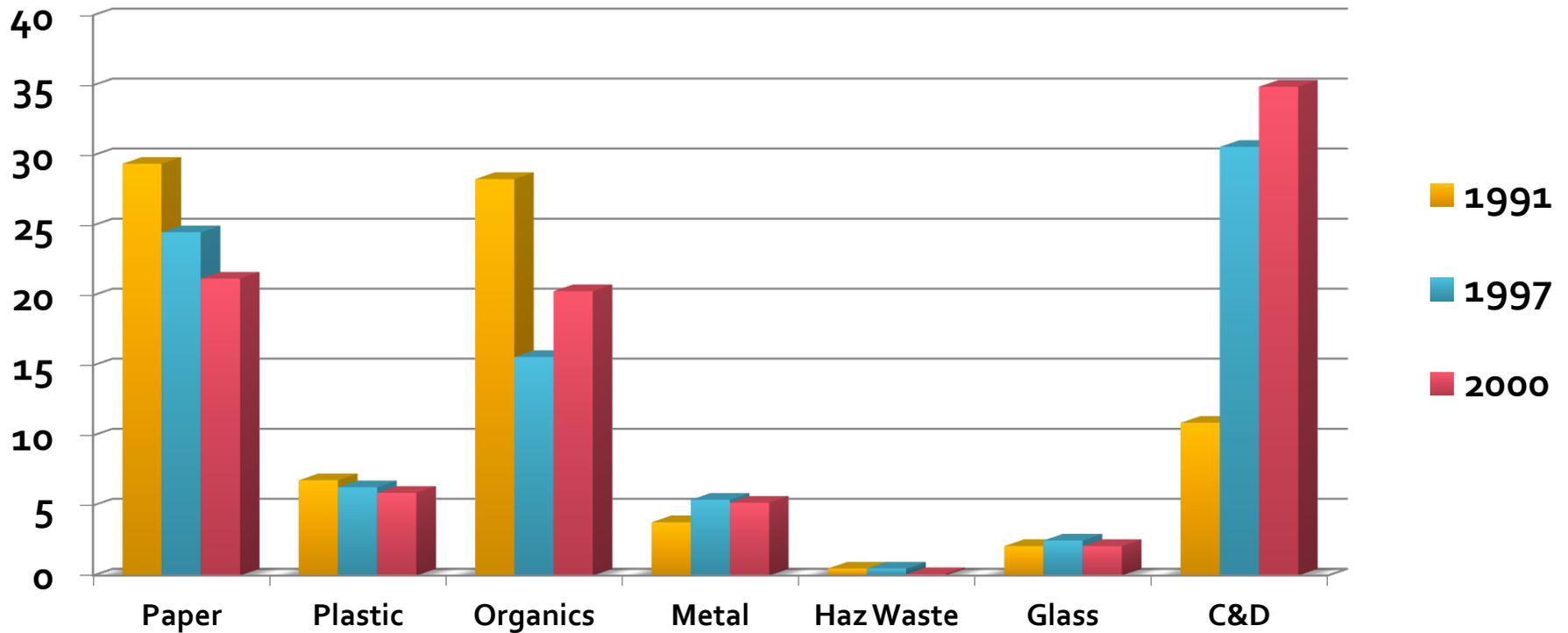
Environmental Services Department

# Today's Presentation

- Background on previous waste composition studies and how results are used
- Proposed Agreement
- Recommended action

# Environmental Impacts

## Waste Composition Study

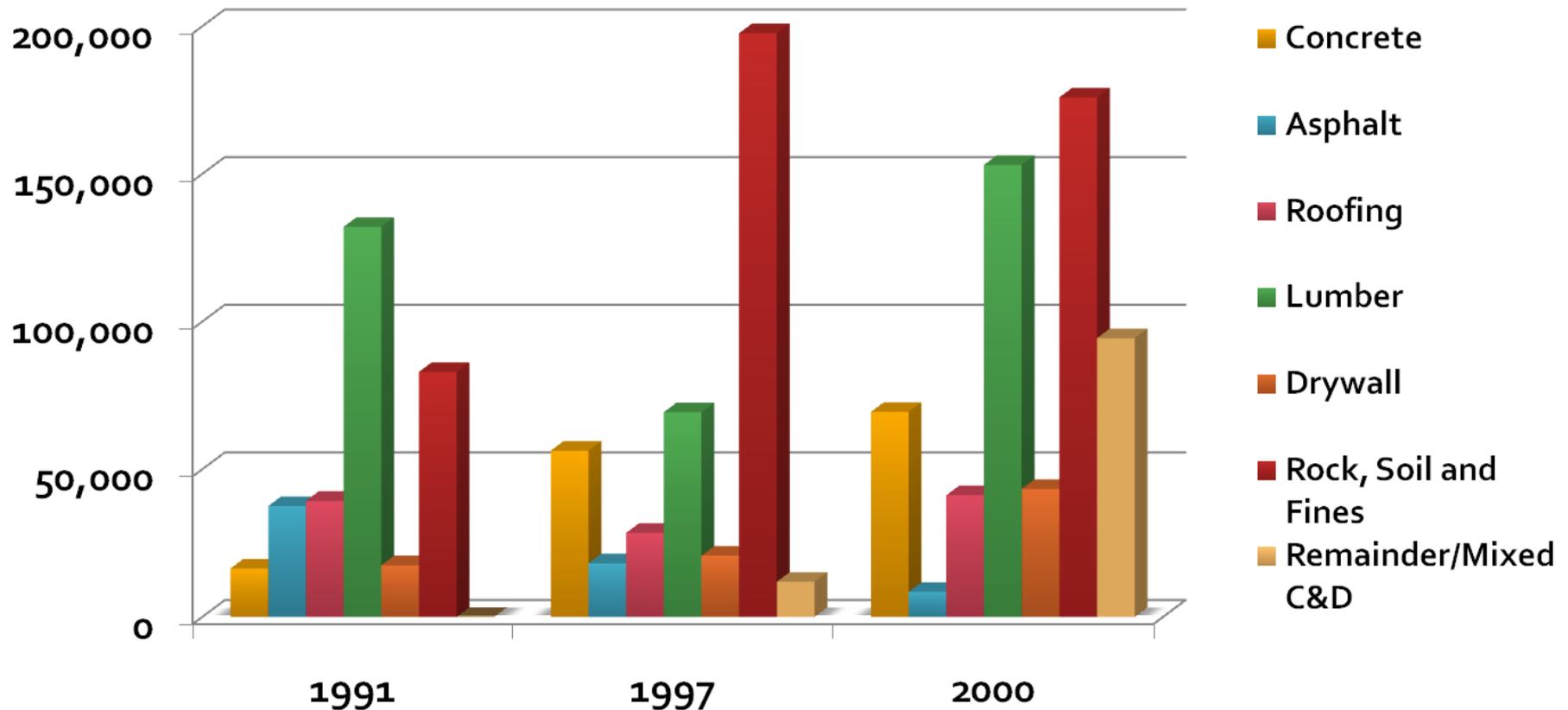


# Overall Waste Composition

**TABLE 4: OVERALL COMPOSITION OF DISPOSED SAN DIEGO WASTE**

<i>Calculated at 90% confidence interval</i>							
	Percent	+ / -	Tons		Percent	+ / -	Tons
<b>PAPER</b>	<b>21.2%</b>		<b>356,578</b>	<b>ORGANIC</b>	<b>20.3%</b>		<b>341,874</b>
Uncoated Corrugated Cardboard	5.1%	0.6%	85,299	Food	8.3%	0.7%	139,758
Waxed Corrugated Cardboard	0.6%	0.5%	9,680	Leaves and Grass	4.2%	0.7%	70,193
Paper Bags	0.5%	0.1%	9,063	Prunings and Trimmings	3.0%	0.5%	50,334
Newspaper	3.7%	0.3%	61,961	Branches and Stumps	0.9%	0.2%	15,661
White Ledger Paper	1.2%	0.2%	20,046	Agricultural Crop Residues	0.0%	0.0%	0
Colored Ledger Paper	0.3%	0.2%	4,215	Manures	0.0%	0.0%	210
Computer Paper	0.1%	0.0%	1,148	Textiles	1.4%	0.2%	22,754
Other Office Paper	0.4%	0.1%	6,540	Diapers	1.2%	0.2%	19,740
Magazines and Catalogs	0.9%	0.1%	15,602	Remainder/Composite Organic	1.4%	0.2%	23,226
Phone Books and Directories	0.3%	0.1%	5,125	<b>CONSTRUCTION &amp; DEMOLITION</b>	<b>34.9%</b>		<b>586,157</b>
Other Miscellaneous Paper	3.3%	0.5%	54,918	Concrete	4.1%	0.7%	69,435
Remainder/Composite Paper	4.9%	0.5%	82,981	Asphalt Paving	0.5%	0.2%	8,496
<b>GLASS</b>	<b>2.1%</b>		<b>34,626</b>	Asphalt Roofing	2.5%	0.6%	41,197
CRV Clear Bottles	0.5%	0.1%	7,757	Non-Treated Lumber	3.8%	0.8%	63,628
Non-CRV Clear Bottles and Containers	0.3%	0.1%	5,869	Treated Lumber	5.3%	0.6%	89,778
CRV Brown Bottles	0.2%	0.0%	3,923	Gypsum Board	2.6%	0.3%	43,333
Non-CRV Brown Bottles and Containers	0.0%	0.0%	422	Rock, Soil and Fines	9.4%	0.8%	157,887
CRV Other Colored Bottles	0.3%	0.1%	5,534	Contaminated soil, street sweepings, drain cleanings	1.1%	0.3%	18,014
Non-CRV & Other Colored Bottles and Containers	0.1%	0.0%	1,449	Carpet & Carpet Padding	3.0%	0.9%	50,463
Flat Glass	0.4%	0.3%	7,361	Remainder/Composite Construction and Demolition	2.6%	0.4%	43,927
Remainder/Composite Glass	0.1%	0.0%	2,310	<b>HOUSEHOLD HAZARDOUS</b>	<b>0.1%</b>		<b>2,232</b>
<b>METAL</b>	<b>5.2%</b>		<b>86,682</b>	Paint	0.0%	0.0%	144
Tin/Steel Cans	0.6%	0.1%	9,480	Vehicle and Equipment Fluids	0.0%	0.0%	36
Major Appliances	0.0%	0.0%	727	Used Oil	0.0%	0.0%	157
Other Ferrous Metal	2.6%	0.7%	43,525	Batteries	0.1%	0.0%	1,053
CRV Aluminum Cans	0.2%	0.0%	2,558	Remainder/Composite Household Hazardous	0.1%	0.0%	841
Non-CRV Aluminum Cans	0.0%	0.0%	257	<b>SPECIAL WASTES</b>	<b>9.3%</b>		<b>155,954</b>
Other Non-Ferrous Metal	0.3%	0.1%	4,863	Ash	0.0%	0.0%	478
Remainder/Composite Metal	1.5%	0.4%	25,272	Sewage Solids	7.2%	0.0%	120,560
<b>PLASTIC</b>	<b>5.9%</b>		<b>98,545</b>	Industrial Sludge	0.2%	0.2%	3,219
CRV HDPE Containers	0.2%	0.0%	3,914	Treated Medical Waste	0.1%	0.2%	2,073
Non-CRV HDPE Containers	0.1%	0.0%	1,391	Bulky Items	1.3%	0.4%	21,275
CRV PETE Containers	0.1%	0.0%	1,347	Tires	0.1%	0.1%	1,771
Non-CRV PETE Containers	0.3%	0.0%	4,970	Remainder/Composite Special Waste	0.4%	0.1%	6,578
Miscellaneous Plastic Containers	0.4%	0.1%	6,383	<b>MIXED RESIDUE</b>	<b>1.0%</b>		<b>17,562</b>
Film Plastic	2.8%	0.3%	46,649	Mixed Residue	1.0%	0.1%	17,562
Durable Plastic Items	0.9%	0.2%	15,357				
Remainder/Composite Plastic	1.1%	0.1%	18,533				
<b>Sample Count</b>			<b>1,361</b>	<b>Total 1999 Tons</b>			<b>1,680,211</b>
				<b>Total Percent</b>	<b>100.0%</b>		

# Types of Construction and Demolition Debris Landfilled in Tons



# Programs Created Following Last Waste Composition Study

- City Recycling Ordinance
- Construction and Demolition Debris Deposit Ordinance
- Food Waste Composting Program

# Proposed Study

- Three-Season Sampling Study- to occur in Fall 2012, Winter 2012, and Summer 2013
- 80-100 material types
- 487 Samples per season (hand sorting of 97,000 lbs of disposed material)
- Compatibility w/ previous studies
- Final report to be completed November 2013

# Procurement Process and Recommendation

- RFP Process
  - Released May 25, 2011
  - Technical evaluation of proposals
  - Cost \$339,000
- Forward to City Council with recommendation to award the contract to Cascadia Consulting Group, Inc.

# Questions?



**SAN DIEGO**



**RECYCLING  
WORKS**

**WHY WASTE A GOOD THING?**