

Session II: SB 1383 and What It Means for the City of San Diego

Zone Works
October 24, 2018



Environmental Services Department

Annual budget of \$107 million with 400 employees in three divisions:

Collection Services

Disposal & Environmental Protection

Waste Reduction

Solid Waste Collection Services: City Forces



- 36 CNG trucks
- 3-Bin collection system:
 - Refuse collection (weekly)
 - Commingled recycling collection
 - Yard waste collection



Solid Waste Collection Services: Franchise Haulers



Collection service to:

- Commercial business
- Multi-family complexes
- Private residential development



Solid Waste Collection Services: Franchise Haulers

City manages Non-Exclusive Franchise Collection Agreement with requirements:

- Annual diversion rate to assist with zero waste
- Notification and service to organic waste generators (AB 1826)
- City Recycling Ordinance reporting and services



Disposal and Recycling Infrastructure: Privately Operated

Additional infrastructure to support the City's Zero Waste goals, Climate Action Plan and SB 1383:

- Compost & mulch operations
- Material recovery facilities
- Sycamore Landfill
- Transfer stations



Disposal and Recycling Infrastructure: City Operated



Miramar Landfill - Subtitle D MSW landfill

- Liner and leachate collection system
- Landfill gas collection system (feeds co-generation engines for energy)
- Final cap and closure requirements

Disposal and Recycling Infrastructure: City Operated



Miramar Greenery - commercial compost facility which covers 75 acres at Miramar Landfill:

- Quality mulch, compost, woodchips
- Recycles over 105,000 tons/year
 - 7,500 tons = food
 - 3,500 tons = wood
 - Remainder = greens

CalRecycle Organics Grant

Covered Aerated Static Pile (CASP) Compost System:

- Divert additional 32,614 tons organic waste (12,614 food + 20,000 greens)
- Compost 40,000 tons organic waste

Food Rescue Component with Kitchens for Good (KFG)

- ESD partnering with KFG to expand food rescue from grocery stores and farmer's markets
- Achieve a "donate first" model, then KFG will glean donations and compost unusable materials on site or send to Greenery



CalRecycle Organics Grant - Covered Aerated Static Pile



CalRecycle Organics Grant - Covered Aerated Static Pile Removing the Cover



CalRecycle Organics Grant – Food Rescue Component



City staff will assist KFG in identifying and enlisting three to four grocery stores and farmers markets not currently in the City's Commercial Food Waste Program to join KFG's food donation collection program. KFG estimates that each average-sized grocery store produces approximately 400 lbs. per day of material (including produce, bakery goods, and dairy) that could be donated. The potential total generation ranges between **7,200 lbs. to 9,600 lbs. of food donation per week, representing an additional 4,800 to 6,400 meals** per week to San Diego's food insecure population.



CalRecycle Organics Grant – Food Rescue Component



Training staff and providing job skills

- KFG and City of San Diego will purchase \$105,000 worth of equipment and supplies.
- Help to expand meal preparation capacity, increasing the amount of healthy meals provided to the community.
- KFG better equipped to receive, store, process, and distribute the new influx of food donation.





Waste Reduction: Get it Done Reporting Platform

Get It Done

Download the App!

App Store | Google Play

Terms of Service



Top Online Services



72-hour Vehicle Violation



Curb/Gutter



Dead Animal



Graffiti



Illegal Dumping



Pothole



Sidewalk



Storm Drain



Street Light



Traffic Sign



Traffic Signal



Tree Hazard

New Report | Follow up | Verify | Confirmation

Report a problem

Complete steps 1 through 4 to report a problem. For emergencies, call 911.

1 Address: Required *

Enter location and select from suggestions or click and drag the red map marker.

Address:

2 Report Category/Type:

Illegal Dumping

Reports are typically processed Mon - Fri, from 8 - 5 pm. If this is an immediate hazard, please call (619) 527-7590.

- Select Detail -

3 Description:

Describe the issue in detail:

4 Upload Images:

Browse

Preview Images < >

Next

Waste Reduction: Zero Waste

“Zero Waste is a principle that calls for handling discarded materials as commodities for reuse rather than for disposal, and conserving those commodities through waste prevention, recycling, composting and other technologies.”

Zero Waste Plan:

- Divert 75% waste by 2020 (332,000 tons)
- Divert 90% waste by 2035 (622,500 tons)
- Reach Zero Waste by 2040



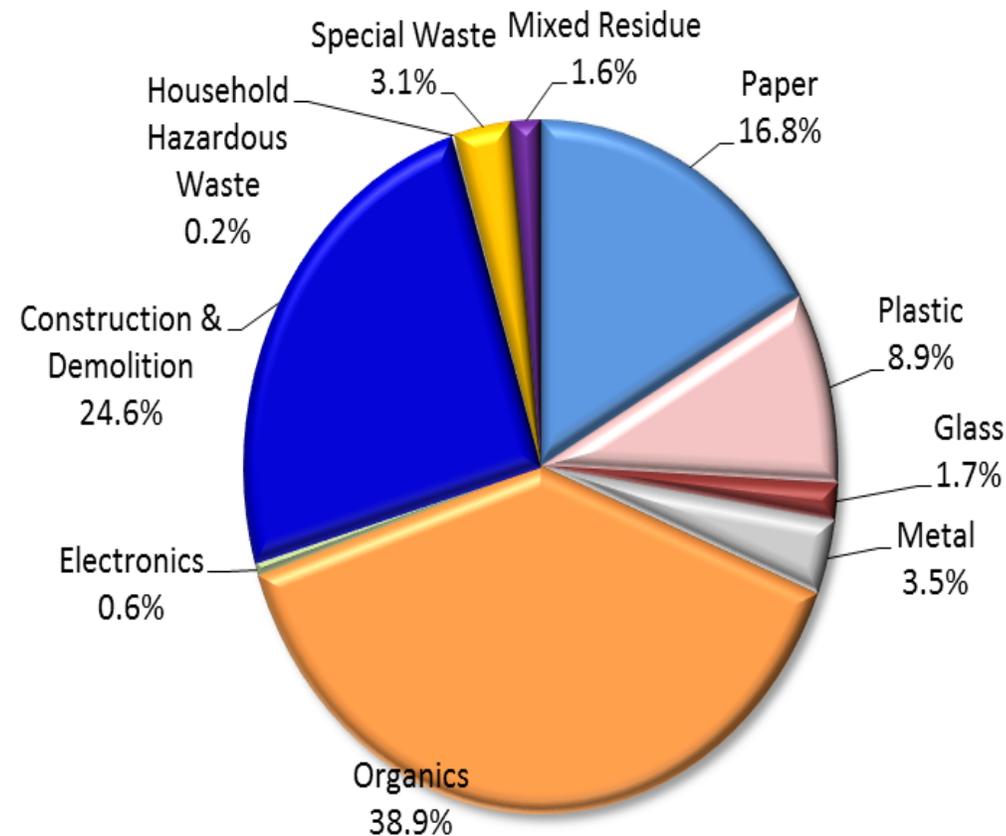


Environmental Services Department

Material	Estimated Percent	+ / -	Estimated Tons	Material	Estimated Percent	+ / -	Estimated Tons
Paper	16.8%		213,223	Electronics	0.6%		7,909
Uncoated Corrugated Cardboard	4.6%	0.4%	58,286	Brown Goods	0.3%	0.1%	4,217
Waxed Corrugated Cardboard	0.3%	0.1%	4,008	CRT	0.1%	0.1%	847
Paper Bags	0.3%	0.1%	3,601	Computer-Related Electronics	0.0%	0.0%	395
Newspaper	0.8%	0.1%	10,455	Other Consumer Electronics	0.1%	0.1%	1,643
White Ledger Paper	0.9%	0.1%	11,387	Video Display Devices (non-CRT devices)	0.1%	0.1%	806
Mixed Waste Paper	2.9%	0.2%	36,523				
Magazines	0.6%	0.1%	7,232	Construction & Demolition	24.6%		311,649
Phone Books and Directories	0.0%	0.0%	522	Concrete	1.8%	0.5%	22,668
Compostable/Soiled Paper	5.2%	0.3%	65,756	Asphalt Paving	0.3%	0.3%	3,460
Aseptic/Milk Containers	0.1%	0.0%	1,619	Asphalt Composition Shingles	0.3%	0.1%	3,360
Remainder/Composite Paper	1.1%	0.1%	13,832	Roofing Tar Paper/Felt	0.3%	0.2%	3,322
				Roofing Mastic	0.0%	0.0%	28
Plastic	8.9%		112,806	Built-Up Roofing	0.2%	0.2%	2,008
CRV HDPE Containers	0.0%	0.0%	265	Other Asphalt Roofing Material	0.1%	0.1%	1,109
Non-CRV HDPE Containers	0.4%	0.1%	5,332	Clean Dimensional Lumber	1.2%	0.2%	14,725
CRV PETE Containers	0.2%	0.0%	2,923	Clean Engineered Wood	1.0%	0.3%	13,241
Non-CRV PETE Containers	0.2%	0.0%	2,940	Clean Pallets and Crates	2.2%	0.4%	27,661
Compostable Biodegradable Plastic Containers	0.0%	0.0%	121	Other Wood Waste	5.1%	0.6%	64,551
Miscellaneous Plastic Containers	0.6%	0.0%	7,674	Clean Gypsum Board	0.6%	0.2%	7,066
Plastic Grocery and Merchandise Bags	0.3%	0.0%	3,459	Painted/Demolition Gypsum Board	1.1%	0.3%	13,566
Clean Film Plastic	0.6%	0.1%	7,593	Carpet & Carpet Padding	4.2%	0.7%	52,562
Dirty Film Plastic	2.6%	0.2%	32,594	Rock, Soil and Fines	2.3%	0.5%	28,955
Durable Plastic Items	2.3%	0.3%	28,492	Contaminated Soil, Street Sweepings, Drain Cleaning	0.5%	0.6%	6,102
Expanded Polystyrene	0.5%	0.1%	6,430	Remainder/Composite C&D	3.7%	0.5%	47,264
Remainder/Composite Plastic	1.2%	0.2%	14,981				
				Household Hazardous Waste	0.2%		2,157
Glass	1.7%		21,903	Oil-Based Paint	0.0%	0.0%	384
CRV Clear Glass Bottles	0.2%	0.0%	2,222	Water-Based Paint	0.0%	0.0%	497
Non-CRV Clear Glass Bottles and Containers	0.3%	0.0%	3,453	Vehicle and Equipment Fluids	0.0%	0.0%	10
CRV Brown Glass Bottles	0.2%	0.0%	2,421	Used Oil	0.0%	0.0%	37
Non-CRV Brown Glass Bottles and Containers	0.0%	0.0%	541	Lead-Acid Batteries	0.0%	0.0%	271
CRV Other Colored Glass Bottles	0.1%	0.0%	985	Household Batteries	0.0%	0.0%	166
Non-CRV other Colored Glass Bottles and Containers	0.2%	0.0%	2,407	Sharps	0.0%	0.0%	12
Flat Glass	0.3%	0.1%	3,965	Pharmaceuticals	0.0%	0.0%	173
Remainder/Composite Glass	0.5%	0.2%	5,909	CFL, Fluorescent Tube and Other Mercury-Containing	0.0%	0.0%	116
				Remainder/Composite Household Hazardous	0.0%	0.0%	490
Metal	3.5%		44,276				
Tin/Steel Cans	0.5%	0.1%	5,976	Special Waste	3.1%		39,056
Major Appliances	0.1%	0.1%	1,028	Ash	0.0%	0.0%	68
Other Ferrous Metal	1.2%	0.2%	15,127	Sewage Solids	0.0%	0.0%	0
CRV Aluminum & Tin Cans	0.1%	0.0%	1,689	Industrial Sludge	0.0%	0.0%	0
Non-CRV Aluminum Cans	0.0%	0.0%	468	Treated Medical Waste	0.0%	0.0%	182
Used Oil Filters	0.0%	0.0%	185	Bulky Items	1.9%	0.4%	24,053
Other Non-Ferrous Metal	0.6%	0.1%	7,602	Tire	0.6%	0.3%	7,468
Remainder/Composite Metal	1.0%	0.2%	12,200	Remainder/Composite Special Waste	0.6%	0.2%	7,284
Organics	38.9%		492,329	Mixed Residue	1.6%		20,238
Food	15.0%	0.8%	189,761	Mixed Residue	1.6%	0.3%	20,238
Palm, Succulent, Coral Tree	5.3%	0.8%	66,995				
Leaves and Grass	6.8%	0.7%	85,871	Total	100.0%		1,265,543
Prunings and Trimmings	3.5%	0.5%	44,515	Curbside Residential Recycling Processing Residuals			10,422
Branches and Stumps	0.7%	0.2%	8,984	C&D Processing Residuals			14,993
Agricultural Crop Residues	0.0%	0.1%	502				
Grass Sod	0.6%	0.5%	8,141	Total Including Residuals			1,290,958
Manures	0.0%	0.0%	619				
Diapers	1.9%	0.2%	24,073	Sample Count			1,504
Textiles	3.4%	0.3%	42,929				
Remainder/Composite Organics	1.6%	0.2%	19,939				

Confidence intervals calculated at the 90% confidence level. Percentages for material types may not total 100% due to rounding.

Miramamar Landfill 2012 Waste



Study available at www.sandiego.gov/environmental-services/recycling



Waste Reduction: Zero Waste

Programs to achieve 75% waste diversion

RECOMMENDATIONS	Tons	Status
Franchise Haulers 50% min – by 2020	93,500	Implemented
AB 1826 Organic Recycling – by 2020	120,000	Partially implemented, in-process
C&D Ordinance to 65%	2,000	Implemented
City Facilities 50% min – by 2020	1,500	Partially implemented, in-process
Divert Fibrous Yard Trimmings	18,000	January 2018
City Recycling Ordinance Revisions	13,000	ETA Fall 2018/Spring 2019
Resource Recovery Center – by 2020	80,000	In-process
Education, Outreach, Enforcement	4,000	FY 2019
Total	332,000	



Waste Reduction: Education and Participation



1. Flyers and mailers sent to residents
2. Master Composter classes & compost bin vouchers
3. Get it Done App and social media
4. Truck signs
5. Landfill tours and group presentations
6. Model schools and in-school programs



Challenges

- People's Ordinance of 1919
 - Financial limitations
 - Inequities – services and how it's paid
- Balancing requests/demands for service
- New or expanding regulations
- Increasing population
- Incentives for private infrastructure investment



Challenges Continued

- Organics Recycling Infrastructure
 - AB 1826 and SB 1383
 - Compostable food service ware
- Districted Exclusive Collection Study
- Franchise Amendments



Challenges Continued

- China's National Sword policy
 - Need for additional domestic and foreign markets
 - Impact on current processing contract
 - Impact on next processing contract
 - Education and outreach efforts and challenges
 - What is and isn't recyclable
 - Videos, truck signs, and social media



THANK YOU!

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