URO Phase 2 Recycling Research







Solid Waste Advisory Committee Universal Recycling Ordinance: Phase 2 May 17, 2010

Contents and Purpose

- Provide an overview of other cities' recycling ordinances to spark additional questions and research
- Define components for URO Phase 2 based on:
 - Restaurant Waste Characterization
 - Hierarchy of Food Scrap Management
 - Local and National Practices



Basic Recycling Requirements: Section 15-6

Existing Commercial (CMFRO)

- Effective UNTIL 9/30/2012
- 100+ employees onsite
- Onsite recycling of 2 materials
- File recycling plan with SWS
- Educate employees and tenants about program
- Quarterly volume reports to SWS

URO Phase 2 will affect:

- 1. Food and Beverage Industry
- 2. Retail Stores
- 3. Industrial and Manufacturing

NEW Commercial URO (Phase1)

- Effective AFTER 10/1/2012
- Phased implementation over 4 years
- Onsite recycling of 5 materials
- File recycling plan form with SWS
- Educate employees and tenants
- Quarterly volume reports to SWS
- Required for building >25,000 ft² in 2015

This is the 1st time most Phase 2 businesses will be affected by a Recycling Ordinance

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Restaurant Waste Characteristics

On average, Food Scraps make up more than 50% of the materials discarded

	Material Type	<u>Est. Pct</u>
Clear Glass Tin/Steel Cans, 1.9% Misc. Paper, 2.2% Newspaper, 2.5% Unclassified C&D, 2.7% Film Plastic, 4.4%	Food	56.00%
	Unclassified Paper	12.90%
	Uncoated Cardboard	5.90%
	Film Plastic	4.40%
	Unclassified C&D	2.70%
	Newspaper	2.50%
Corrugated Cartons, Unclassified 5.9% Paper, 12.9%	Other Miscellaneous Paper	2.20%
	Tin/Steel Cans	1.90%
Source: California Integrated Waste Management Board,2006 Waste Characterization Study	Glass Containers	1.70%

What are other Cities doing to divert disposal from restaurants?

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Food Scrap Best Use Hierarchy

- 1. <u>Minimize and reduce</u> food scrap generation
- 2. Feed people first (food banks, shelters, soup kitchens)
- 3. Feed animals (livestock, zoos, pet food)
- 4. Industrial uses (rendering, fuel conversion)
- 5. Compost the rest (local food production?)

Source: US Environmental Protection Agency







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Phase 2 Recycling Ordinance Research

Cities Considered

- San Francisco, CA
- Boulder, CO
- Chicago, IL
- Denton, TX
- Durham, NC
- Gainesville, FL
- Honolulu, HI
- Issaquah, WA
- Portland, OR
- San Diego, CA
- Seattle, WA

Why these Cities?

- Robust Ordinances
- Innovative Practices
- Similar Climate
- Similar Population Size



City of San Francisco, CA (pop. 805,000)



- "Charter" relationship with single commercial hauler
- Decades of recycling experience

"Product Ban" Ordinance (2006)

- Bans polystyrene foam disposable food service ware
- Requires biodegradable or recyclable food service wares
 - "Unless no affordable alternative exists"
 - Waivers issued through administrative "waiver" process



City of San Francisco, CA (continued)



Mandatory Recycling and Composting Ordinance (2008)

- Requires all persons and entities to source-separate recyclables, compostable, and trash
- Requires "Adequate refuse collection services" defined as:
 - Recycling
 - Composting
 - Trash collection
- Establishes container standards:
 - Color coding
 - Placement or storage



City of San Francisco, CA (continued)



- Requires collectors and transfer stations to:
 - Report all tonnages, by material type, annually
- Enforced jointly by:
 - Department of Environmental Services
 - Department of Health
 - Department of Public Works
- Applies to owners/managers of:
 - Multifamily and Commercial properties
 - Food vendors, including mobile vendors
 - Haulers, transfer stations, and processing facilities

City of San Francisco, CA (continued)



Food Vendor component of ordinance:

- Food vendors supply collection infrastructure for:
 - Source-separated recyclables, compostable, and trash
 - Employees, contractors, and customers
- Containers (carts or dumpsters) must be:
 - Sufficient in number and size to handle anticipated quantities
 - Well signed & color-coded to identify materials collected
 - Located for equal convenience for users

City of Boulder, CO (pop. 97,000)



Open-market: City licensed haulers/service providers Ordinance No. 7585 (2008) - Hauler requirements:

- Collect recyclables, compostable materials, and trash
- Pay monthly Trash Tax
 - \$0.85 per cubic yard for businesses and multifamily units
- Report annual tonnages to City
- Collect no less than every other week:
 - Min. 32 gallons of compostables (no max.)
- Distribute City-created brochures to clients



City of Chicago (pop. 2.7 million)



Private haulers serve large commercial customers

Commercial Recycling Ordinance (1995)

- Develop plan
- Educate new tenants or employees
- Source separate 2 materials from list
 - Plus another material or practice certain source reduction measures
 - only 1 material if waste audit shows it to be 51%

• Materials Collected:

Newspaper	Magazines, catalogs	Corrugated cardboard
High-grade paper	Glass bottles, jars	Plastic containers
Mixed paper	Aluminum cans, foil, pans	Wooden pallets
Steel and bi-metal cans	Plastic film	Fluorescent bulbs
High-intensity discharge lamps	Fats, oils, and greases	

City of Chicago (pop. 2.7 million)



Compost Ordinance date (2007)

- Exempts small-scale compost operations from city permit requirements
- Requires them to be well-managed
- Ordinances that require diversion of organics may lead to on-site composting.
 - Are onsite composting solutions for Austin businesses acceptable?

City of Denton (pop. 113,383)



City of Denton

- Exclusive waste hauler agreement
- City operates landfill

Ordinance No. 2005-256 (2005)

- Commercial Collection Service applies to those properties without residential collection (4 or more dwelling units)
- The City offers open-top or compacting roll-off containers for trash and recycling
- Applies to every owner, occupant, tenant, or lessee of any building, or structure
- Permit required to haul special waste or recyclables

City of Denton (continued)



City provides Recycling to Businesses:

- Recycling services not mandated
- Free waste audits
- Employee education



City of Durham, NC (pop. 228,000)



City contracts with one hauler for commercial waste

North Carolina state laws

- 2008: Businesses with ABC permits required to recycle beverage containers
- 2009: Disposal ban on plastic bottles, motor-vehicle oil filters, wooden pallets, and oyster shells

Commercial Recycling Ordinance

- Passed 1997, effective 1998
- Requires all waste generators to recycle:
 - Aluminum and Steel cans
 - Glass bottles and jars
 - Newspaper

- **Plastic bottles**
- Corrugated cardboard
- Computer equipment/televisions (2011)



City of Durham, NC (continued)



Enforcement

- Originally penalized haulers at city-owned landfill for contaminated loads
- Violators charged double to dispose
- Durham Solid Waste Management Department has Enforcement Officers on staff



City of Gainesville, FL (pop. 124,000)



City awards non-exclusive waste hauling franchises and registers recyclables haulers

Mandatory Commercial Recycling Ordinance (1997)

- Elements: Hotels, Motels, Restaurants, Bars, Retail Stores, Offices, Institutions and Construction Projects
- Commercial generators collect these recyclables if they exceed 15% of their waste stream (difficult to verify):
 - Corrugated cardboard and pasteboard
 - Newspaper, office paper and junk mail (AND shredded paper)
 - Metal cans
 - Glass bottles and jars
 - Plastic bottles, jugs, jars and tubs (#1 thru 7)

City of Honolulu, HI (pop. 388,000)



Private haulers compete in open market

Ordinances in 1990s ban disposal or require recycling

- Materials banned from commercial or government disposal:
 - Yard trimmings
 - Electronic scrap
 - Cardboard
 - Tires, auto batteries, white goods and scrap metals (1994)
 - Zero Waste Plan recently approved (2011)
- Businesses required to recycle:
 - Glass containers from bars and restaurants (1996)
 - **Paper** from office buildings (1996)
 - Food waste from hotels, restaurants, food courts, grocers, food manufacturers, and hospitals (Ordinance 96-20 passed in 1997)
 - Newspaper, cardboard, office paper, aluminum, glass, and plastics from city facilities (1990)

City of Honolulu, HI (continued)



Food scraps handled by 5 local compost companies.

- Starches (including bread, dough, noodles and rice)
- Dairy & Bakery Wastes
- Egg Shells
- Cooking Oil
- Vegetable and Fruit Wastes (including pineapple tops and "boats," watermelon rinds, onions and potatoes)
- Juice and Beverages (including Beer and Cider)
- Full Milk Cartons
- Coffee Grounds
- Tea Bags
- Meat and Fish Waste
- Deli Waste
- **Opt-Out:** If charge for recycling exceeds tipping fee.

City of Issaquah, WA (pop. 12,000)



City-contracted hauler collects recyclables and garbage from residential and commercial sites

Phased-in Recycling for Food Service Packaging

- <u>Phase 1</u>: Jan. to Oct 2010
 - City provides education, awareness, incentives
- <u>Phase 2</u>: Oct 2010 to June 2011
 - Polystyrene containers banned
 - Recyclable or Compostable service ware required
 - Businesses must provide recycling and compost containers for customers eating on-site
 - Property managers and landlords provide <u>space</u> for recycling or compost service for tenants
 - Some waivers
- <u>Phase 3</u>: July 2011 waivers expire

City of Portland, OR (pop. 584,000)



Permitted commercial haulers compete in open market

Commercial Recycling Requirements

- 1987: Haulers required to offer recycling services
- 1990: Polystyrene Foam Container Ban at restaurants, grocery stores and other retailers
- 1996: Businesses required to recycle 50% including:
 - all types of paper
 - plastic bottles
 - aluminum cans
 - glass containers
- Hauler fees, City provides containers, educational materials, and administrative support

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City of San Diego, CA (pop. 1.31 million)

Commercial haulers compete in open market

Phased Recycling Ordinance (2007):

- January 2008: Existing City customers with recycling services
- February 2008
 - Apartments and condos (100+ units)
 - Commercial (20,000+ sq ft)
 - Special events
- January 2009
 - Apartments and condos (50+ units)
 - Commercial (10,000+ sq ft)
- January 2010: All apartments, condos, and commercial facilities
- July 2011: add rigid plastics including clean food waste containers, jugs, tubs, trays, pots, buckets, and toys



City of San Diego (continued)



Requirements

- <u>Commercial</u> materials: those listed for multi-family plus *"other materials for which markets exist,"* such as scrap metal, wood pallets, and food waste
- Properties use Department container and signage guidelines
- Haulers:
 - Submit annual reports of solid waste and recyclables collected
 - Notify their customers of the ordinance and requirements
- Funded by \$10/ton trash fee on haulers
- Enforced by the Environmental Services Department

City of Seattle, WA (pop. 610,000)



Two franchise haulers have exclusive territories

Commercial Recycling Ordinance No. 121372 (2003):

- As of 2005, bans recyclable materials (mixed paper, glass, metal, plastics) and yard debris (not currently food scraps) from commercial garbage
- Seattle Public Utilities sets collection rates for commercial trash, recyclables, and compostable materials for the two franchise haulers.
- Prices for commercial compost collection service are 32% less than for regular garbage service.

City of Seattle, WA (continued)



Expanded polystyrene (EPS) Ban Ordinance No. 122751 (2006):

- Phased-in ban on selling or providing food in (EPS) food service products
 - After 1/1/2010, no EPS for raw meat or seafood
 - After 1/1/2009, no EPS for all other food (except for prepackaged food sealed in EPS prior to receipt)
- After 7/1/2010, food service businesses with on-site dining shall provide:
 - Only compostable or recyclable single-use service ware
 - Collection containers for service ware and transport to appropriate facilities

Food Scrap Reduction Hierarchy

- 1. Minimize generation
- 2. Feed people
- 3. Feed animals
- 4. Industrial uses
- 5. Compost leftovers

Food Donations

Donating surplus food:

- 1. Feeds hungry people
- 2. Saves disposal costs
- 3. Reduces solid waste.
- 4. Protects the environment







Good Samaritan Food Donation Laws

• Federal Emerson Good Samaritan Food Act (1996):

- National standards for food donations so interstate donors have consistent liability information
- Texas Good Faith Donor Act (1981):
 - Persons who donate apparently wholesome food to a nonprofit organization for distribution to the needy are not subject to civil or criminal liability.

Examples of Containers and Labels





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Examples of Containers and Labels

City of Seattle



McDonald's Northeast pilot program (1991)



Lowe's Hardware



Austin Examples: Hopdotty Burgers







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Austin Examples: Strange Brew Coffee



Austin Examples: Various

Tarka Indian Restaurant



House Pizzeria



Black Star Co-op



Whole Foods Market





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Questions?



http://www.articlesbase.com/videos/5min/268426584

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