Recycling Update: Where we were, where we are, and where we're going.

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City of Houston SWD
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Solid Waste Management

 The Solid Waste Management Department (SWMD) provides solid waste services to the citizens of Houston through the collection, disposal and recycling of discarded material in a manner that is safe, efficient, environmentally sound and cost-effective.



Curbside Recycling History

- Curbside recycling began as a pilot program in 1990, with the small 18-gallon bins being provided in large part through donations from local and major corporations;
- The original program had only 27,000 homes, which grew to over 200,000 homes with the small dual stream bins before the City began converting and expanding the single stream program.
- Starting early 2015, Houston will for the first time achieve it's goal of offering curbside recycling to all homes with City solid waste services. A big win!



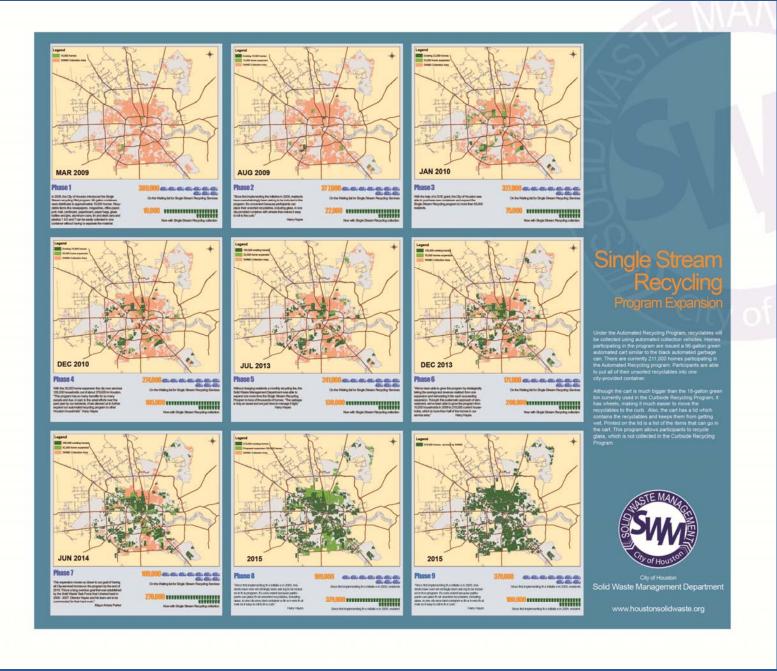


How to Revolutionize Curbside Recycling in Houston

- 2009 March, pilot 10,000 homes
- 2009 August, 12,000 homes
- 2010 January, \$3M DOE grant adds 50,000 homes
- 2010 December, 30,000 homes
- 2013 July, 33,000 homes
- 2013 December, 70,000 homes
- 2014 June, 62,000
- 2015 remaining 109,000 homes







Financial Improvements

- Expansions made possible by sharp fiscal responsibility:
 - Disposal contract negotiations (saved \$14M/year and \$150M over the life of the contract)
 - Creation of recycling revenue fund;
 - Debt service finance agreement with Finance Dept
 - Departmental savings returned to SWMD

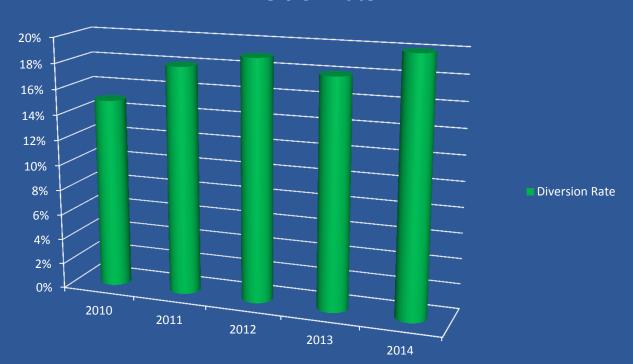


Revenue and departmental savings along with debt service allowed the single stream program to flourish.

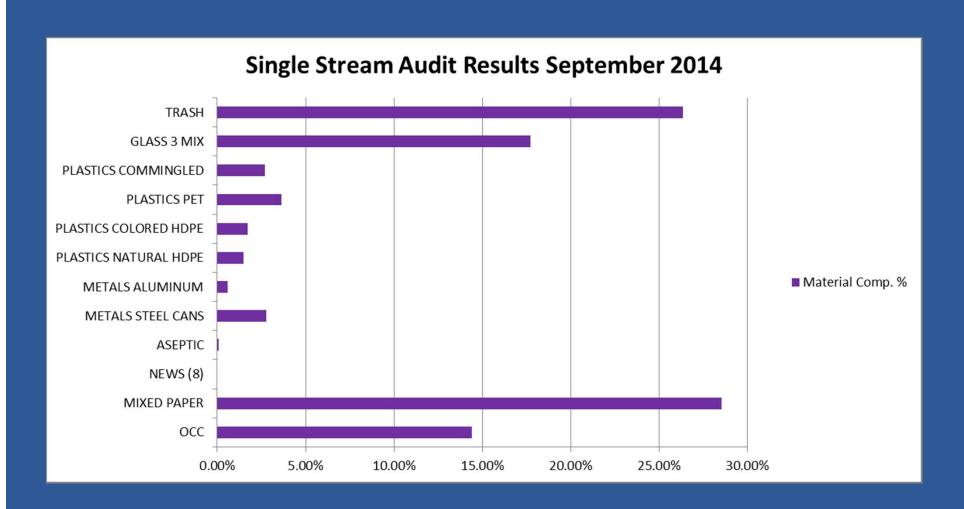
Environmental Improvements

 Significant increases in diversion rate from residential programs.





Single Stream Composition



Please Don't Put These in Recycling

Shrink wrap and pet food bags are NOT recyclable in the Houston program.



Please Don't Put These in Recycling



So much film plastic!

Bags
Table cloth
Packaging

Please Don't Put These in Recycling



Please remember:

- No film plastic
- Please remove cardboard from plastic
- Don't "nest" recyclables within one another



Westpark Recycling Center



- BOPA
- E-scrap
- Paper and magazines
- Plastics (1-5 and 7)
- Glass
- Tin and aluminum
- Corrugated cardboard
- Phone books
- Styrofoam
- Textiles

Services between 12,000 – 15,000 cars/month

Recycling Drop-off Sites



- Kingwood
- Ellington
- Brittmore

AND6 NeighborhoodDepository sites

Environmental Service Centers



- Accept household hazardous waste, e-scrap, and CFLs;
- Service between 500-700 households each month.

Reuse Warehouse

- In the Houston area, 38% of the waste stream is made up of construction and demolition material, much of which could be diverted and re-used.
- The Reuse Warehouse accepts donated construction materials from individuals, supply companies, builders, and remodelers. These materials are made freely available for use by any non-profit organization.
- The Reuse Warehouse is partially funded by an H-GAC Solid Waste Implementation grant.



The Reuse Warehouse opened April 2009. Since that time 2,269 tons have been diverted from the landfill. Of those 88% or 1,998 tons have been given back to the community for reuse through non-profit organizations.

Expanded Partnerships

- 2009 June, Reuse Warehouse opens
- 2011 June, Business Recycling Program begins
- 2011 September, CompuCycle partners with City of Houston to provide monthly drop-off events for e-waste in Kingwood and Clear Lake
- 2011 November, Houston Apartment Association and City partner to recognize "Go Green Communities"
- 2012 June, Total Petrochemicals donates Styrofoam densifier to Westpark Recycling Center









Expanded Partnerships









- 2013 September, Houston Furniture Bank partners with City to collect and recycle mattresses
- 2013 October, GreenSpot Dropoff, CompuCycle and City partner to expand permanent e-waste drop-off sites to over 30 storage facilities throughout the city
- 2014 April, Carton Council and City partner to include aseptic packaging and cartons in curbside and drop-off recycling programs
- 2014 August, Cherry Company and City partner to include concrete collection at depositories for recycling
- 2014 August, ATRS and City partner to pilot textile recycling collection at three drop-off locations

Compostable Bag Highlights

- Since program inception there has been no significant increase in garbage tonnage and has seen 67% less yard waste placed at the curb for collection.
- Major public information/education campaign effort has resulted in voluntary compliance by citizens, and enforcement actions have not been necessary.
- City saves over \$1.2M annually due to yard waste being diverted from area landfills.
- City receives revenue of \$5.25/ton from LETCO





Treewaste Highlights



Average annual heavy trash collected was ~300,000 tons.

- 30%-40% Green Waste
- Since separating tree
 waste and heavy trash
 collection days, an average
 of 50,000 tons of tree
 waste is diverted and
 turned to mulch each year.
- The disposal savings from this program are over \$500,000/year.

Thank you!



Questions?