

9003 North Main Street, Houston, TexasEst. 2009.www.houstonreuse.org281-814-3324reuse.warehouse@houstontx.gov

We accept building material from anyone, keep it out of landfills, and give it to non-profit organizations for free.

We don't sell or give material to the general public.

There is no charge for drop-offs or collections.

It is the only reuse facility of its kind in the United States.



Who Brings Material? Large Corporations. Small to Medium Companies. Individuals. Other reuse facilities. The City of Houston.

Avan Construction Balfour Beatty Brochsteins Case & Associates Durotech **Junk King Justin Gordon Homes Ikea Distribution Pioneer Millwork Dresser NGS Historic Houston Repurpose Depot Habitat for Humanity NWHC AIA Houston** IIDA TX/OK - Tarkett **The City of Houston** Exxon

Who Takes Material? 501(c)(3) Non-Profit Organizations. Schools & Universities. Government Agencies.



Small religious organizations Community development corps. Home repair organizations Schools and universities **Organizations for the homeless** Performing and visual arts **Urban food producers Organizations for women Maker spaces Veterans organizations Disaster relief organizations** Federal, state, and local gov'ts. **Historic preservation Animal shelters Neighborhood organizations** & many more.

<u>We Accept:</u> Lumber, Plywood, Trim, Cabinets, Some Furniture



Bricks, Pavers, Stone, Gravel, Rubble.



Doors, Windows, Shower Enclosures, Mirrors, Plate Glass.



Hardware, Mechanical, Electrical, & Plumbing Fixtures.



We don't accept:

- Rotten Wood.
- Paint & Solvents.
- Hazardous Materials.
- Energy Wasting Appliances.
- Water Wasting Fixtures.
- Partial Assemblies.

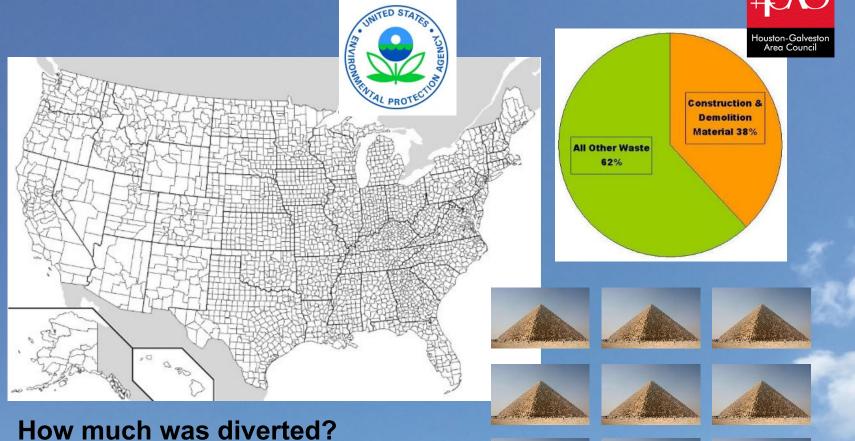
How Things Add Up...



Unit of measure: The Great Pyramid of Giza, 65 million tons.



570 million tons of construction and demolition debris were generated in the United States in 2017 = 9 Great Pyramids.

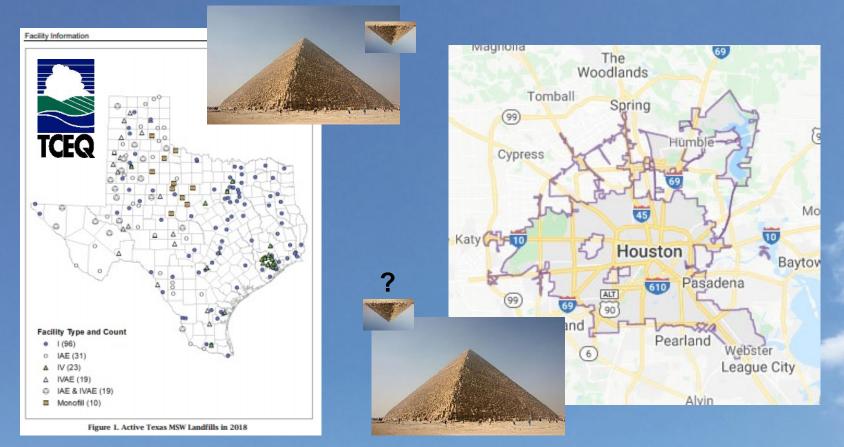


How much was diverted lt's complicated.



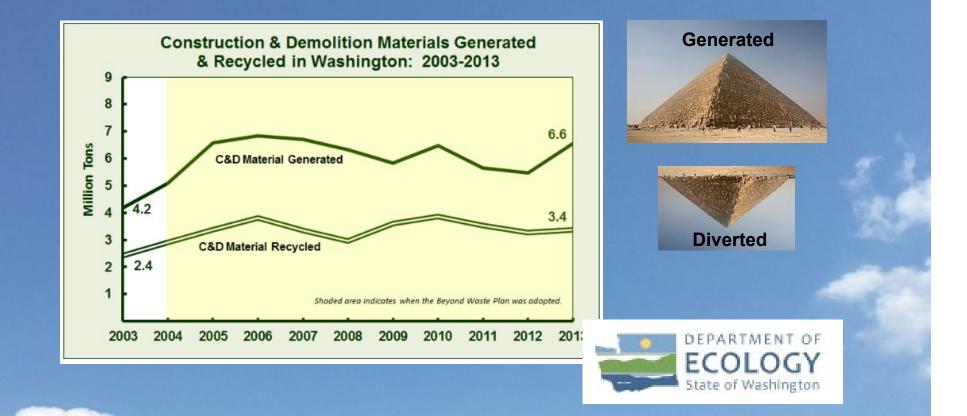


8.6 million tons of construction and demolition debris were generated in Texas in 2018 = 1 Great Pyramid every 7.5 years.
.5 million tons were diverted = 6% tracked diversion rate.



Houston generates 250,000 tons of C&D waste annually = 1 Great Pyramid every 25 years.

6.6 million tons of construction and demolition debris were generated in Washington State in 2013 = 1 Great Pyramid.
3.4 million tons were diverted = 51% tracked diversion rate.

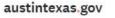




Phased Landfill Disposal Bans 2012 - 2020

Seattle Municipal Code 21.36.089 prohibits the disposal of certain C&D materials in construction site disposal containers and the disposal areas of transfer stations and sets a schedule for banning them from disposal. SPU Director's Rule 405.3 Revision 4 🗄 (pdf) adopts a new implementation schedule for certain targeted items:

- Asphalt Paving, Bricks, and Concrete (2012)
- Metal (2014)
- Cardboard (2014)
- New Construction Gypsum Scrap (2014)
- Unpainted and Untreated Wood (January 2015)
- Carpet (July 2020)
- Plastic Film Wrap (July 2020)
- Tear-Off Asphalt Shingles (July 2020)





sizes will also nave to meet the ordinance requirements.

Business

Ordinance Requirements

Resident

Diversion Requirements

General contractors for Affected Projects must do at least one of the following:

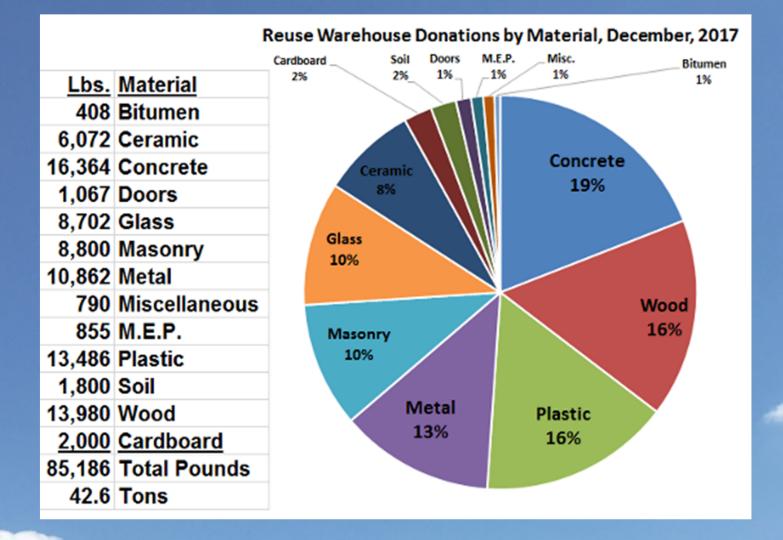
- · Divert from the landfill at least 50 percent of the construction project debris.
- Dispose no more than 2.5 pounds of material per square foot of floor area in the landfill.

There are several options for hauling and processing construction debris.

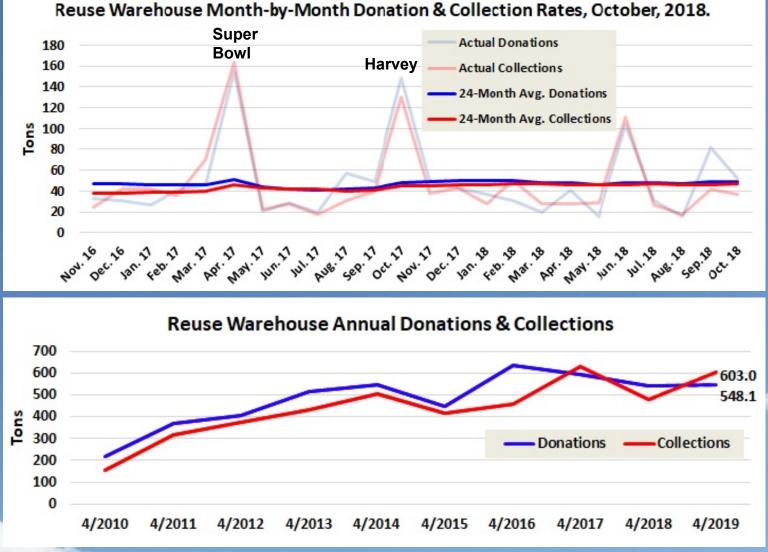
Reporting Requirements

When a general contractor requests a Final Building Inspection for an Affected Project, the contractor must report how much construction debris was landfilled, reused or recycled. Contractors failing to report are subject to a Class C misdemeanor.

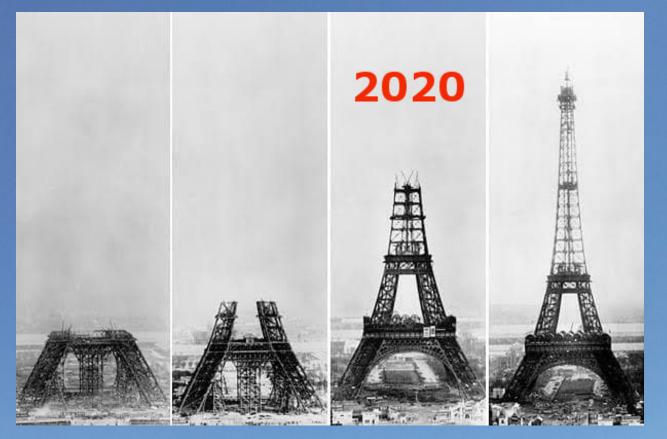




Donation to Collection Ratio: 99% Average Month: 50 tons



Landfill Diversion to Date: 5,300 tons. Eiffel Tower: 7,700 tons.



We are small but seek cultural and technical changes by getting involved in everything.

Demand Rises to Meet Supply



The Potential to Divert Less Attractive Materials.



Compliment other reuse facilities by accepting and distributing clearance materials.





RePurposing Houston. One House At a Tim

The tonnage leader in donations to the Reuse Warehouse.

Easier to Reuse Materials, "Fast": Almost Anything Modular:



Easier to Reuse Materials, "Fast": Easily Repurposed:



MFA H The Museum of Fine Arts, Houston

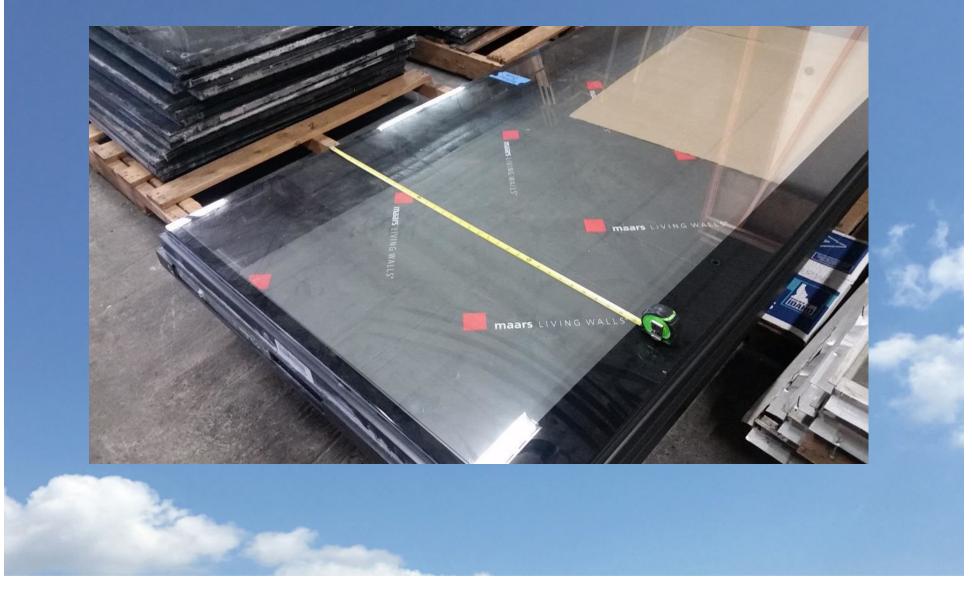
Easier to Reuse Materials, "Fast": Easily Repurposed:



The "Fastest" material: 4' x 8' sheets of plywood.



Difficult to Reuse Materials, "Slow": Custom Sizes and Shapes



Difficult to Reuse Materials, "Slow": Missing key components



<u>Difficult to Reuse</u>: Recycle instead. Embody more energy, time, and cost.



Deconstruction:

Client-driven. Plan early in the process. Expect obstacles in the contract. Try to save 7 things; be proud of 3. Get to know the Superintendent.



9003 Main St., Admin. Bldg., 2015.

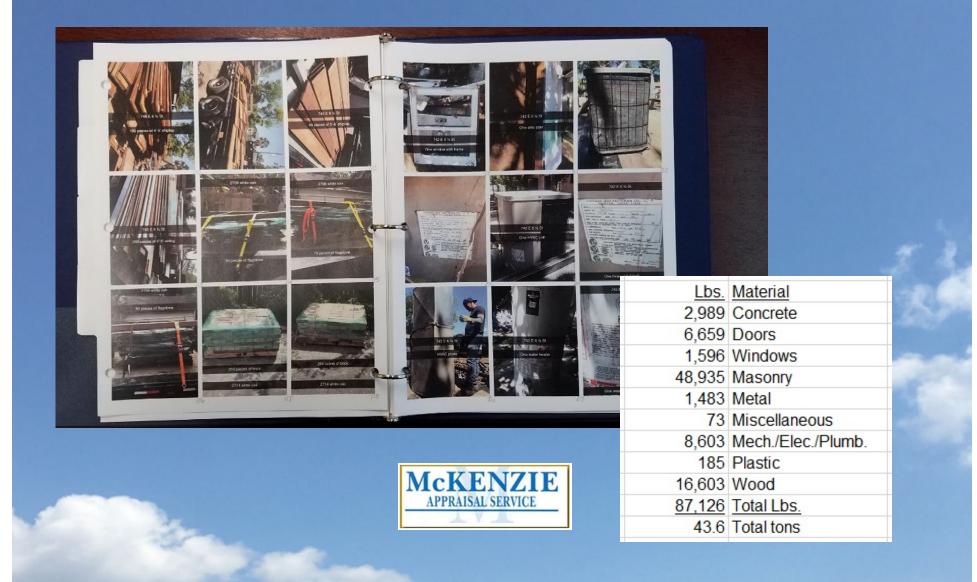
Deconstruction: Fitzgeralds in the Heights







Deconstruction: Fitzgeralds in the Heights



Deconstruction: League City residence, 2016.





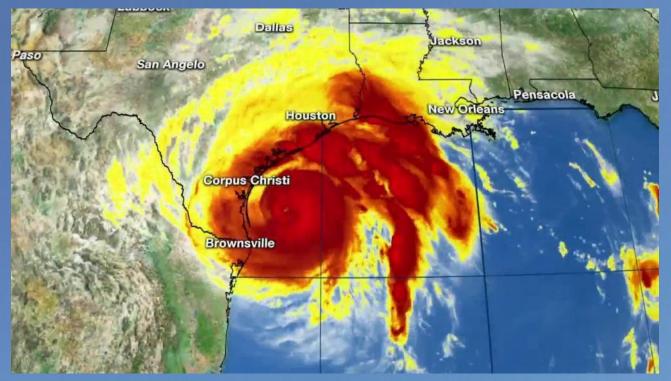
Super Bowl LI 2017

Diverted: 160 tons of material. ³/₄ million square feet of carpet. 5 miles of fence scrim. "Best and most complicated effort in 25 years."



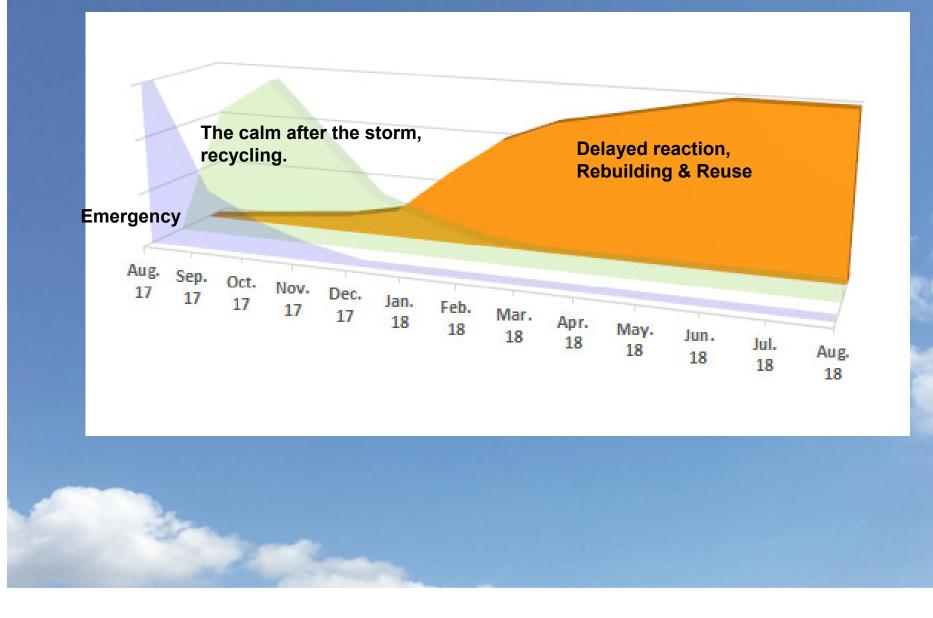


Hurricane Harvey, Harris County, August, 2017



51 inches of rain – 36 storm-related deaths.
300,000+ building units affected.
2.03 million cubic yards of building debris.
350,000 tons = more than 1.4 years-worth of C&D waste.

Rebuilding and Reuse after Harvey, August , 2017 – August 2018. Ongoing.

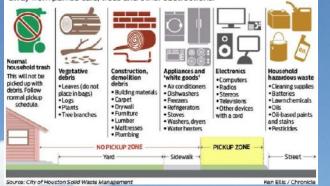


Post - Harvey <u>Recycling</u>, Fall, 2017.



Heavy haul

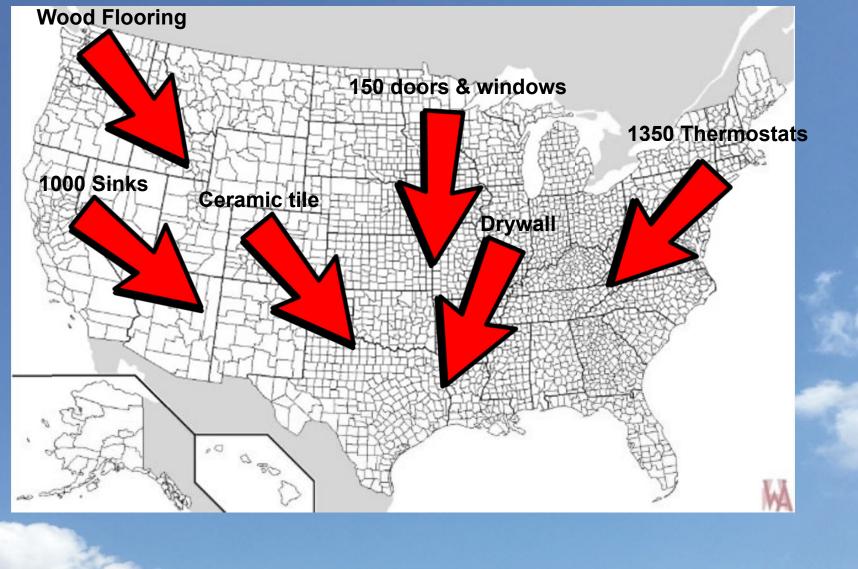
Officials said storm debris that will be hauled off by crews should be divided into five categories, and placed along roadways – but not in the road – and away from parked cars, trees and other obstructions.



RECON SERVICES INC. ZENFOBOTICS

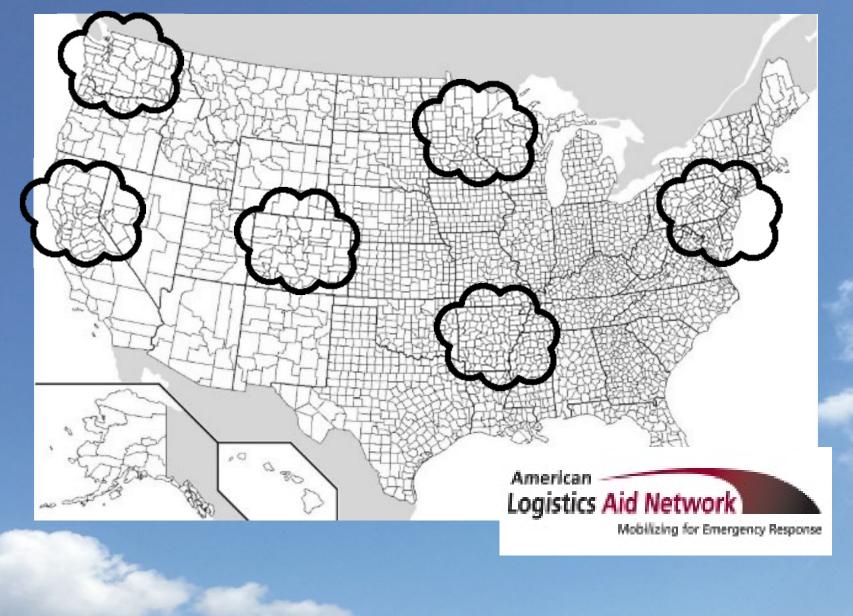


1 month after Harvey



and the second

Materials Offers



New & reused material donations



ULATION









<u>To enter;</u> Send in 4 Photographs + A 250-word description.

THE 2019 WINNERS ARE:

Individual Construction & Remodeling

1st Place: Cynthia Piro, Houston, *Custom Designed 8'x10' Tree House*

2nd Place: Izzy Plunkett, Houston, *Hurricane Harvey Recovery Through Public Art Project*

3rd Place: Tim Wermond, Austin, Ultra-Modern Contemporary Bathroom Renovation

Individual Art, Fashion, & Furniture

1st Place: Oscar Rangel, Houston, Giant Nutcracker

2nd Place: Yureisly Suarez, Austin, End Tables Made from Granite Sink Cutouts

3rd Place: Steve Stelzer, Houston, Armoire Lamp Made from Reused Materials

Businesses and Organizations

1st Place: Dottie Moore, Houston, Encourager Church Limitless Camp Stage Show

2019 Texas Reuse Contest, Construction & Remodeling



2nd Place Izzy Plunkett, Houston



3rd Place Tim Wermond, Austin

2019 Texas Reuse Contest, Art, Furniture, & Fashion.



1st Place Oscar Rangel, Houston



2nd Place Yureisley Suarez, Austin



3rd Place Steve Stelzer, Houston

Hall of Fame:

1st Place, 2016 National Reuse Contest, Nestor Topchy Habitable Interdisciplinary Visionary Environment (H.I.V.E.), Houston



<u>Hall of Fame:</u> Basic Home Repair, 2009 – 2020.





Hall of Fame **Oak Forest Library deconstruction**



Ecclesia Church, 2011.

Hall of Fame: Urban Food Production, Texas Cambodian Buddhist Society.



Hall of Fame Fifth Ward Band Stage, Dan Havel and Dean Ruck., 2011.



Hall of Fame: Trojan Horse, Yolle Lemberger, Houston Festival Foundation, 2011.



Stage Set, Bay Area Ballet, 2013.







Thanks for 10+ years!

9003 North Main St. Houston, TX 77022 281-814-3324

www.houstonreuse.org

reuse.warehouse@houstontx.gov