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City of Farmers Branch Sustainability Committee

Presentation to the City Council Study Session

June 19, 2018

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Recycling and Waste Reduction Subcommittee

Presentation to the
Farmers Branch
City Council
June 19, 2018

Committee Members

► **Currently 4 Members**

Jonas Greene

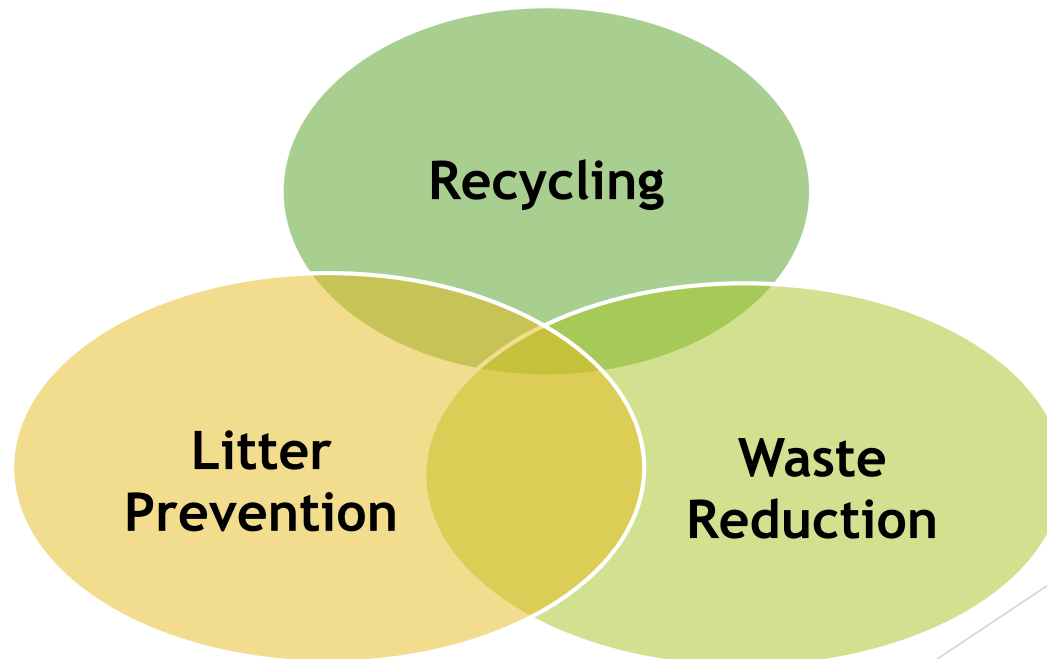
Jeff Prutz

Amy Rogers

Carrie Schweitzer

Initiative

Decrease litter accumulating in storm drains and neighboring creeks while increasing the aesthetic value of Farmers Branch Neighborhoods. Maintaining fiscal responsibility by decreasing city expenditures on trash and recycling services.



Our Goal: Identify Actions for the Core Initiatives That Align with the City Guiding Principals:

1. **Reducing litter (public areas, neighborhoods, storm drains, creeks)**
 - ▶ Single Family Homes (torn garbage bags)
 - ▶ Commercial Properties (litter from commercial dumpsters)
 - ▶ Construction Projects (stray litter during construction)
2. **Provide Aesthetic Value to Farmers Branch Neighborhoods**
 - ▶ Reduce amount time items placed out (trash, recycling, bulk)
 - ▶ Offer additional services to residents (textile recycling option)
3. **Maintain Fiscal Responsibility**
 - ▶ Actions that provides cost savings or are cost neutral

Recommendations

Priority 1: Trash Ordinance Change

- Trash Carts for Trash Service
- Require Commercial dumpster lids be maintained with closed lids
- Dumpster and Recycling bin on construction projects valuing \$10,000 or more

Priority 2: Operational Changes

- Single day pick up for Bulk, Recycle, and Trash
- More frequent street sweeping
- Partnership with Simple Recycling - free textile recycling program

Additional Considerations

- Direct Citations for Bulk Trash Violations
- Screening requirements for neighborhoods with small sized back alley access

Benefits:

- ▶ Cost savings from CWD
- ▶ Litter reduction
- ▶ Improve environmental quality of creeks
- ▶ Reduction in stray trash at construction sites
- ▶ Improve overall appearance of neighborhoods (items placed out less often)
- ▶ Added convenience to residents
- ▶ Provides an additional recycling service at no cost to city or residents
- ▶ Effective way to address bulk trash violations

Q&A

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Litter in Streets Finds it's Way to the Creeks

Water Kit Options

Vanessa Serrano

Information provided by Rita Bevings

The Need for Water Conservation

According to the 2015 U.S. Census, almost 72% of Farmers Branch housing stock was built prior to 1980. 13.7% of homes were built between 1980 and 1990.

- Substantial progress has been made on the efficiency of water appliances and fixtures since the 1980's.
- As water bills continue to rise for the City and for residents, water kits and/or showerhead swaps can help residents learn about water conservation, helping citizens save water and save money.

Water Consumption by Plumbing Products/Appliances 1980-2015

(Source: Alliance for Water Efficiency)

Fixture or Appliance	1980s Water Use	1990 Requirement	1992 EPA Act Req	2009 Baseline Plumbing Code	2012 Green Code Req	% Reduction in Avg Water Use Since 1980s
Residential Bathroom Faucet	3.5+ gpm	2.5 gpm	2.2 gpm	2.2 gpm	1.5 gpm	57%
Showerhead	3.5+ gpm	3.5 gpm	2.5 gpm	2.5 gpm	2.0 gpm	43%
Residential Toilet	5.0+ gpf	3.5 gpf	1.6 gpf	1.6 gpf	1.28 gpf	74%
Residential Washing Machine	51 gal/load	No Req	26 gal/load (2012 Std)	No Req	16 gal/load	67%
Residential Dishwasher	14 gal/cycle	No Req	6.5 gal/cycle (2012 Std)	No Req	5.0 gal/cycle (ASHRAE S191P)	64%

AM Conservation Group

- 3 Kit options with pricing were secured from AM Conservation Group for water kits with a separate price for showerheads.
- The cities of Dallas, Frisco, and Richardson have ordered many water-saving products through this company.
 - Can look for different quotes, but the experience AM has working for cities is bound to be very helpful

Water Kit Quotes and Quantities

- ▶ Includes a bag imprinted on one side in one color (FB logo),
- ▶ labor for assembly
- ▶ 1 page sheet of literature

3 Options Provided

3 Conservation Kit Options (Assembled with an imprinted logo)

- ▶ Option A - 6 Components
 - ▶ 1. Showerhead (1.2 gpm)
 - ▶ 2. Faucet sink aerator (1.0 gpm)
 - ▶ 3. Kitchen dual setting spray aerator w/ swivel (1.5 gpm)
 - ▶ 4. 1 packet of leak detector dye tabs
 - ▶ 5. Hose nozzle*
 - ▶ 6. Moisture meter*
- ▶ Option B - 5 Components (no moisture meter)
- ▶ Option C - 4 Components (no moisture meter or hose nozzle)

Comparison

Quantity	A - 6 Items	B - 5 Items	C - 4 Items
500	\$19.48	\$17.29 ea	\$15.14 ea
1,000	\$16.95	\$14.98 ea	\$13.05 ea
2,500	\$14.15	\$12.45 ea	\$10.60 ea
3,500	\$12.83	\$11.24 ea.	\$9.59 ea

Notes on How to Save More on Kits

- ▶ If the city wanted to assemble or have volunteers assemble these kits, the city could buy an imprinted bag for approximately \$3-\$4 per unit from EcoPrint vs. the \$4.00 from AM Conservation group (includes labor to assemble) to save money on the price per unit.
- ▶ Kits can be split into 2 different bags - an outdoor bag and an indoor bag.
- ▶ FB staff has stated that they have:
 - ▶ moisture meters (approximately 100) and
 - ▶ rain gauges (100) in their 2018 inventory
(possible outdoor kit or supplement a single kit)

Showerhead Swap Concept

Several cities in the Metroplex conduct showerhead swap programs, such as Frisco and Dallas, where a resident can bring in an old showerhead to exchange for a new low flow showerhead. Residents can get 2 FREE showerheads maximum per household.

Below is the pricing for showerheads 1.25 gpm (gallons per minute).

Model N2912CH FM Earth:

500: \$4.65 ea.

1000: \$4.38 ea.

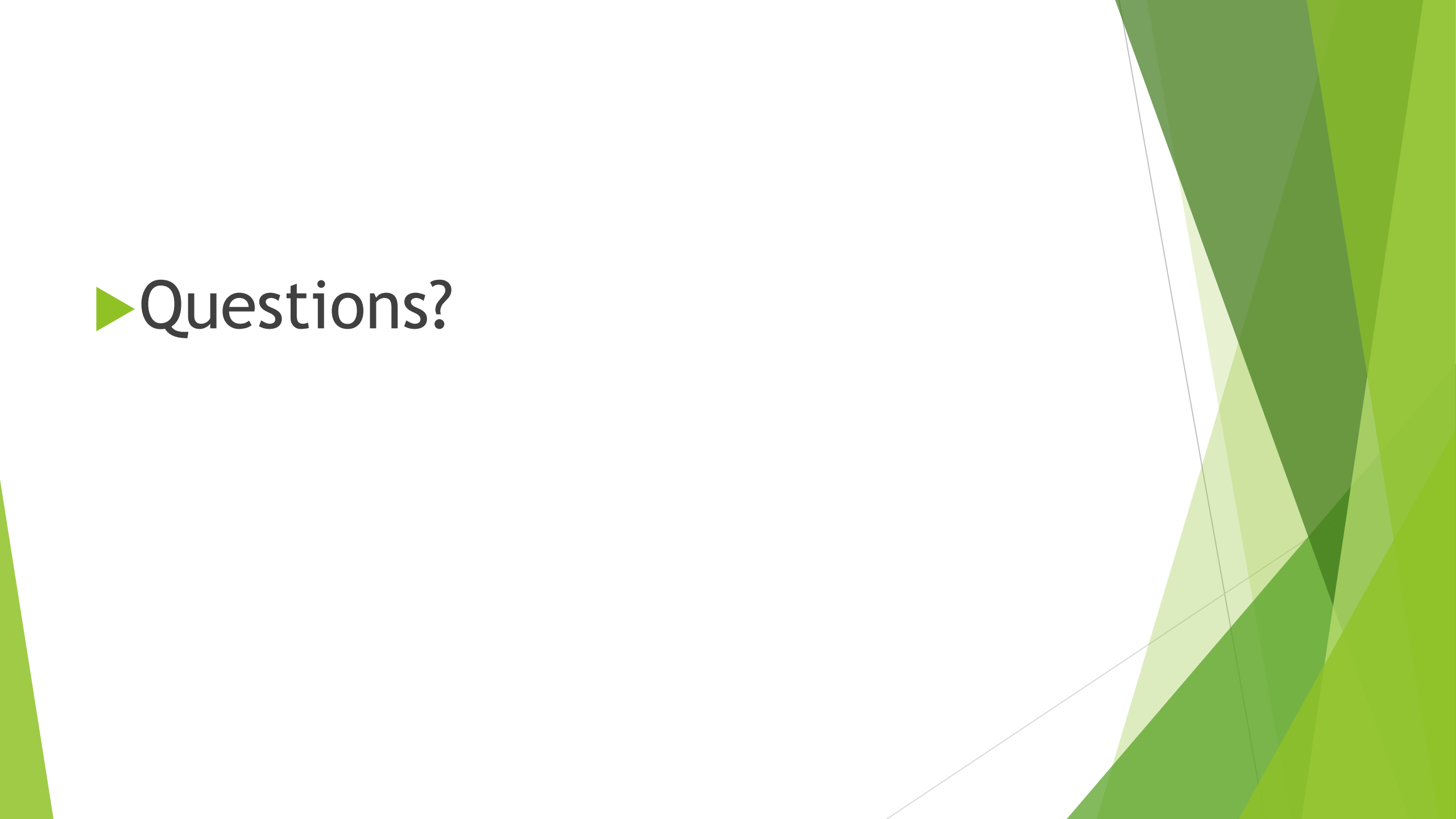
2500: \$3.95 ea.

Ideas to Help Underwrite Kit or Showerhead Concept

A SPONSOR could get recognition, depending on their donation level, as follows:

- A) Name imprinted on opposite side of bag;
- B) Recognition in the FB newsletter when the kit program is introduced;
- C) Recognition on the website;
- D) Name imprinted on literature to go inside the kit.

If there are multiple underwriters, those donors that give more funds will get more recognition or their logo is imprinted in a larger size in various media and literature placement areas.

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► Questions?