

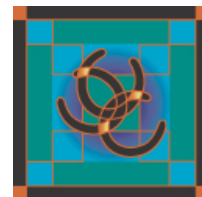


RAMSEY/WASHINGTON COUNTY

RESOURCE RECOVERY PROJECT

Anaerobic Digestion: A New Organic Waste Management Method

May 27, 2010



JL TAITT
and associates inc
WE TURN GARBAGE INTO GOLD™

Two new anaerobic digestion reports



Organic Waste Includes

- ❖ Food wastes
- ❖ Fiber waste
(non-recyclable paper and cardboard)
- ❖ Plant & floral waste



Sources of Organic Materials

- ❖ Residential
- ❖ Commercial
 - ▶ Industrial
 - ▶ Institutional
 - ▶ Retail establishments



Current Methods of Recovery

- ❖ Food rescue
- ❖ Rendering
- ❖ Hog feeding
- ❖ Cattle feeding
- ❖ Manufacturing livestock feed
- ❖ Composting



Since 2003: A Focus on Food Waste

- ❖ Greatest CEC cost savings potential

(Heavy, wet & dense waste)

- ❖ Easy to understand & separate from garbage

- ❖ Can be managed by 5 of 6 recovery methods

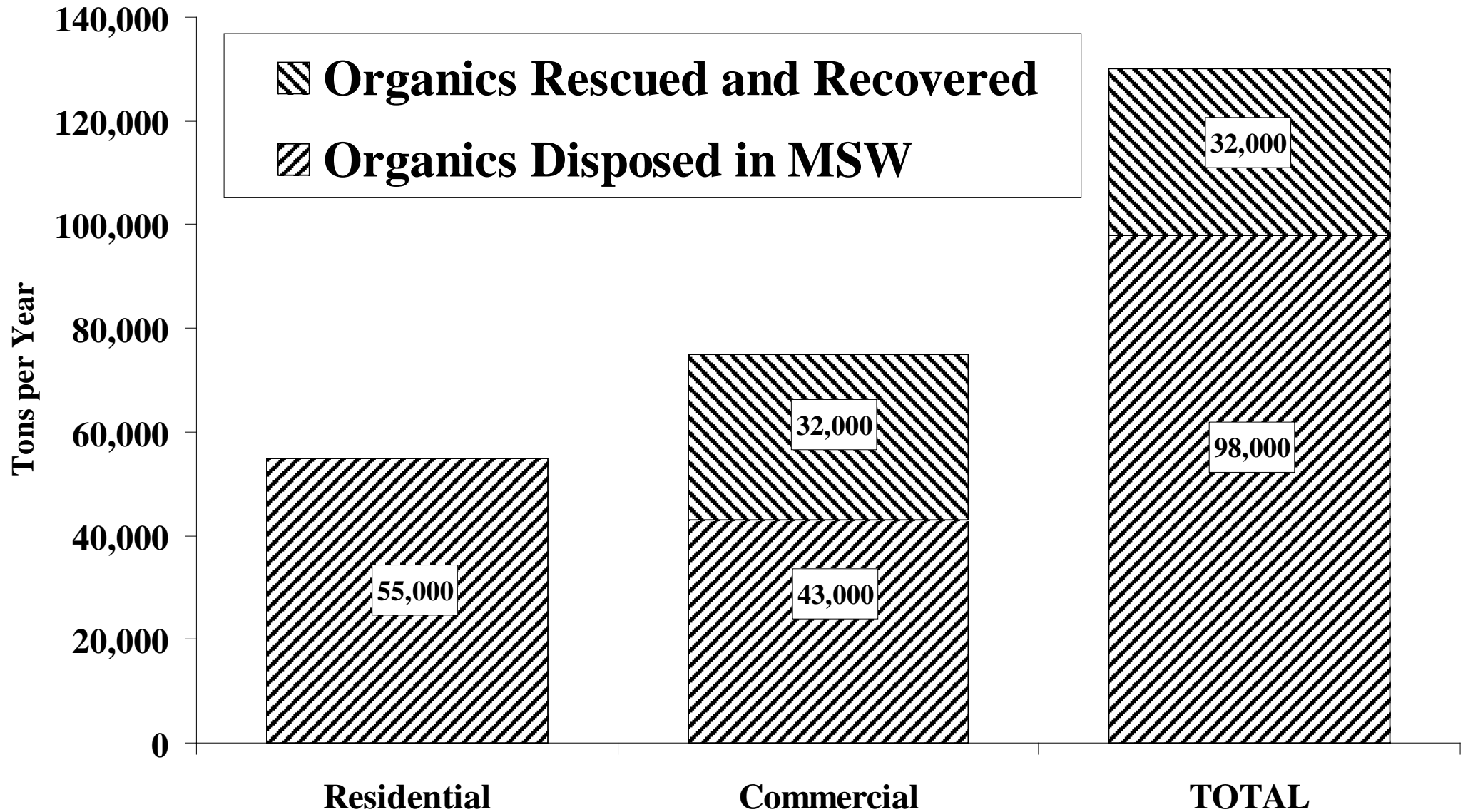


Anaerobic Digestion

- ❖ Proposed new organics recovery method
- ❖ A move toward the recovery of food, fiber and plant/floral waste
- ❖ A move toward an integrated organic waste management system

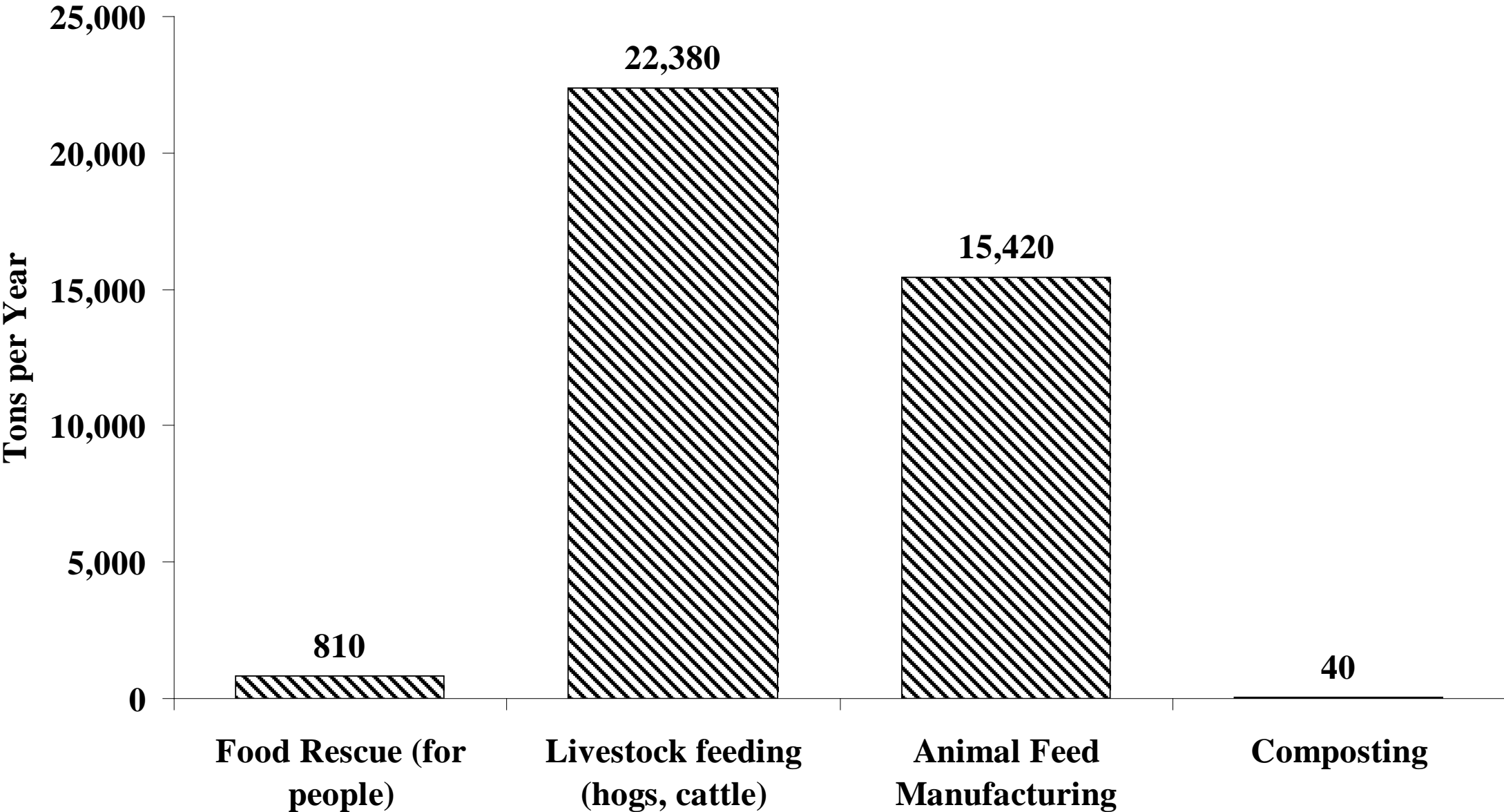


R/W Organics Recovery & Disposal



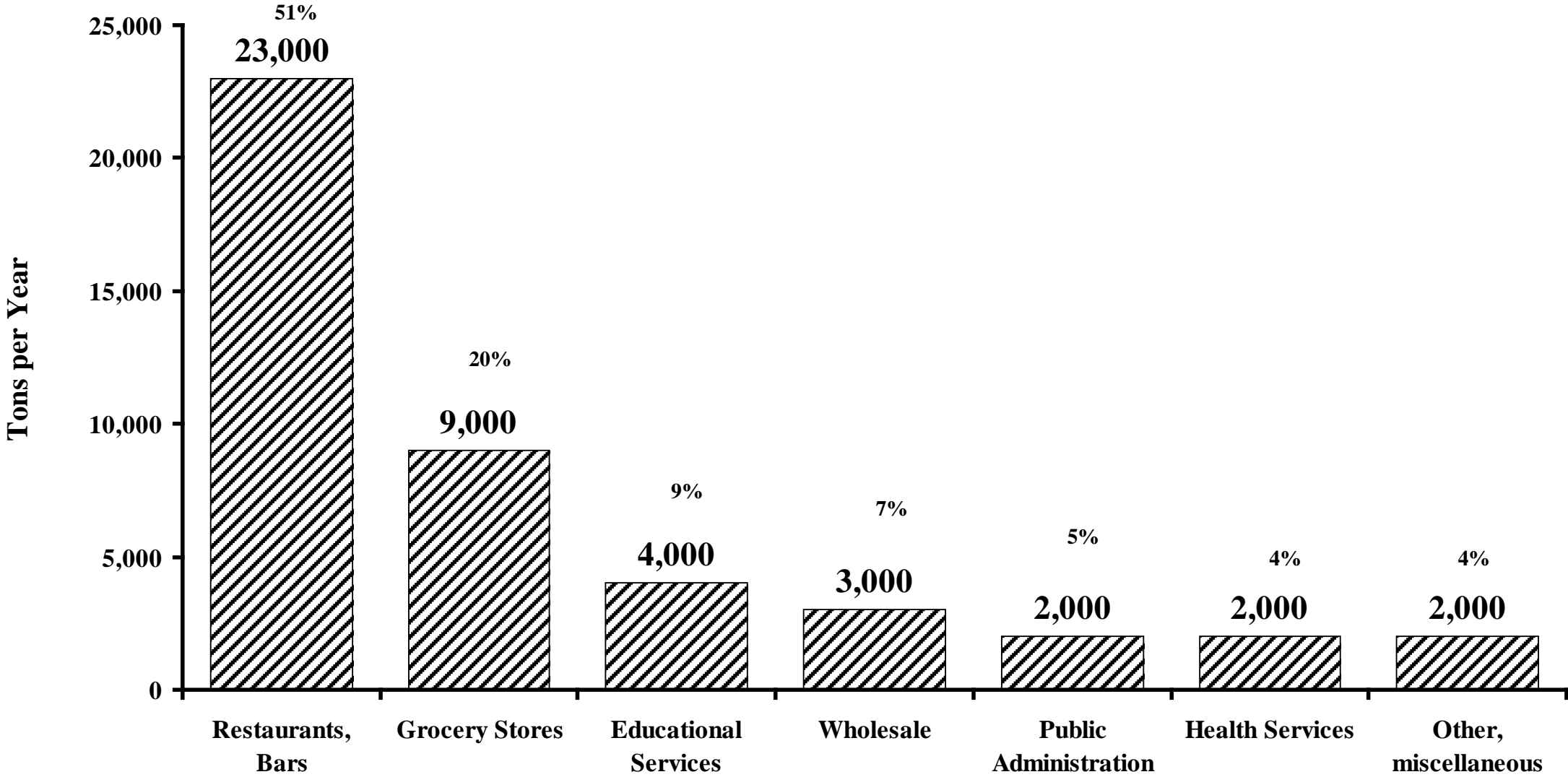
Source: Data year 2008 from SCORE reports and Foth commercial database.

Current Food Scrap Recovery Methods in R/W Counties



Source: SCORE data for year 2009

R/W Food Waste Still in Mixed MSW



Source: Foth commercial database and previous studies

How to Capture Targeted Materials

- ❖ Keep CEC
- ❖ Reliable & innovative hauling
- ❖ Competitive pricing
- ❖ Reliable end market
- ❖ Education of generators, haulers
- ❖ Right sizing of collection service
- ❖ Integrated materials transfer system
- ❖ New laws or policies



Conclusions

- ❖ Approximately 43,000 tons of organic waste is available from the commercial sector in R/W.

Conclusions (continued)

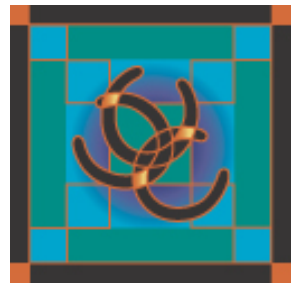
- ❖ Mature organic management methods serving the Counties currently exist for some of the service options, but development is needed for a fully mature and complete system.

Conclusions (continued)

- ❖ Increasing organics collection and management will require investment in infrastructure, development of new relationships and enhancement of existing partnerships.



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