



# Composting: Collection & Processing

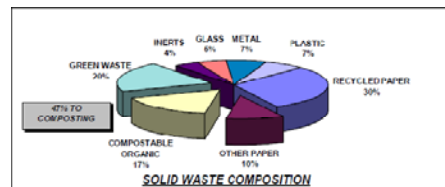
Topsoils Etc. Inc. in conjunction with Paterson Environmental Holdings  
 Harold Wiggins - President  
 Phyllis Richardson - Marketing & Sales



*"Recycling Today for a Better Tomorrow"*

## What is Composting?

- ▶ Composting is the purposeful biodegradation of organic matter, such as yard and food waste. The decomposition is performed by micro-organisms, mostly bacteria, but also yeasts and fungi.
- ▶ In-Vessel Composting Procedures allows facilities to precisely control the temperature, moisture levels and bacteria



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## Why Compost?

- ▶ Landfill Air Space
- ▶ Incineration and the moisture effects of food waste
- ▶ Cost Factors of composting compared to land filling
- ▶ Organic fertilizer



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## Materials Accepted for Composting

- ▶ Green waste
- ▶ Food Waste
- ▶ Manures



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## Green Waste Materials

- ▶ Leaves
- ▶ Brush
- ▶ Small Stumps and Logs
- ▶ Whole Trees
- ▶ Pallets
- ▶ Dimensional Lumber
- ▶ Wood Chips



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## Food Waste

- ▶ Restaurants and Cafes
- ▶ Food Whole Sale Markets
- ▶ Produce Distribution Facilities
- ▶ Food and Spice Packaging Operations



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## Yard Waste Services

- ▶ 15, 20 , 30 yard Dumpster Service Available
- ▶ Yard for waste material dumping at discount pricing form landfills



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## Food Waste Services

- ▶ 65 to 95 gallon indoor containers
- ▶ 2 and 4 yard plastic Rear Load dumpsters for outdoor larger producers
- ▶ Options available for up to daily pick up of waste
- ▶ All trucks will be fitted with wash out systems for the containers
- ▶ Very Large Producers will be offered 30 yard self contained compactors or liquid tight transfer trailers



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## Green Waste Processing Procedures

- ▶ Manual Sort for Contaminants (Plastics)
- ▶ Grind Material to a Manageable Equal Size
- ▶ Stock Pile material for future Use



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## Food Waste Processing Procedures

- ▶ Manual Sort for Contaminates
- ▶ Mix Green Waste with Food Waste and Manures
- ▶ Regrind Material to further reduce particle size for blending and quicker digestion periods

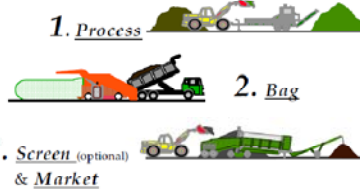


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## In-Vessel Composting Process

- ▶ Versa Composting Technologies
- ▶ Versa Tech Bagging system
- ▶ Versa Tech Aeration Systems
- ▶ Hand Held Temperature Readings for Aeration Adjustments
- ▶ Advantages of in-vessel composting
  - Processing Period
  - Odor Problems
  - Temperature and Moisture Control

### *SIMPLE AS 1, 2, 3*



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## Composting Process (step one)

- ▶ After material is in system with aeration material sits for 15–20 days with a controlled temperature between 90 to 140 degrees Fahrenheit
- ▶ Material Decreases in Volume by 20 to 40%



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## Composting Process (Step two)

- ▶ Curing Process
  - Remove from Bag and place in Wind Rows
  - Turn curing material as needed to continue composting and curing process



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## Screening Process

- ▶ Screen Material in Trommel Screen to a 3/8" minus material
- ▶ Stock Pile fines for sale and blends
- ▶ Reintroduce over's into composting process (bacteria transfer )



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## Finished Products

- ▶ Pilot Products
  - Horticultural Topsoil's
  - Blends of Compost, Subsoil's and Natural Top soils
  - Screened Compost
  
- ▶ Future Products
  - Roof Top Growing Medium
  - Bio-Retention Materials (sand, Top soils, clay, compost, pine fines)
  - Ball Diamond Blends
  - Golf Course Blends
  - Special Blends Upon Request



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# QUESTIONS?

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## Thank You!

Topsoils Etc. Inc. in Conjunction with  
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