Request for Compost Demonstration Permit for 1 Year

1. Site Owner:

   Land Owner:

2. Location:

3. Ingredients:
   A) Yard waste
   B) Dewatered domestic septage and grease trap pumping
   C) Clean unpainted and untreated wood
   D) Pre and post consumer food waste
   E) Food processing waste
   F) Inorganic N may be added if need for proper C:N
   G) Wood chips
   G) Land clearing debris
   H) Poultry litter
   I) Tobacco dust
   J) Produce waste

4. Schedule:
   Request a twelve month approval to work with compost process to get proper mixture and procedures.

5. Methodology: Windrows:
   Primary compost method will be windrows. Individual windrows will be 10-15 ft wide and 6-10 ft high. Windrows will not exceed 100 ft in length.
   Wastes will be premixed on a clay or concrete pad prior to putting into a windrow or layer waste into windrows to determine the most efficient process for our operation. Windrows will be covered with finished compost or mulch as necessary to control odor. Windrows will be laid out on adequate slope to prevent water from collecting at the base.

   A rotating drum or bins may be tested during the demonstration period.

6. Aeration:
   Aeration will be provided by turning windrows with a rubber tired front end, ath-y, loader, skid steer or a dozer with turning blade. After initial heating of compost, windrows will be turned every 3-5 days, until pathogen reduction requirements have been met. Windrows will maintain above 131 degrees for 15 consecutive days, and during the period the windrows are above 131 degrees, they will be turned at least 5 times.

   After pathogen reduction requirements have been met, windrows will be turned as often as needed, to maintain oxygen and moisture levels. Each step will be documented and kept for reference to accomplish proper mixture. Compost will be turned as needed to add oxygen and keep temperature to at least 131 degrees.

7. Blending:
   Blending will be done by mixing 2 yard waste to 1 domestic septic and grease trap waste on top and blending with a tractor.

8. Monitoring:
   Temperatures will be measured at least 3-4 times per week (Monday-Wednesday-Friday) until pathogen reduction requirements are met. Windrows will be monitored every 25 ft and at varying depths. Moisture will be checked by hand method- by squeezing compost and checking water dripping out or to dry by compost falling apart.

9. Leachate:
   Material will be mixed in proper proportions so that water does not run out. Areas down slope from the compost area are vegetated with a 85 - 90 % cover of fescue or some type of cover crop.

10. On-Site Storage:
    Storage of grease trap and septic pumping are stored at a permitted storage facility- License # 98-08
    Yard waste will be stored adjacent to the windrow area. This area has a clay subsoil and adequate depth to seasonal wetness.

11. Product testing:
    Product will be tested prior to distribution for fecal coliform bacteria, man made inert, required regulated metals. An NCDA Waste analysis will be used for metal levels. Man made inert will be done by taking a 5 gallon bucket sample of compost and weighing it. Then sift through a ¼ inch screen and weighing trash. Trash weight must weigh less than 6% of total product weight. Fecal coli form analysis will be conducted by a private lab. Sterile techniques will be used in taking these samples.

12. Record Keeping:

Records will be kept of all temperature readings and when each windrow is turned. Records will show that each windrow maintained a temperature of a least 131 degrees for at least 15 consecutive days and that each windrows was turned at least 5 times while above 131 degrees. Each windrow will have its own identification number. Records will be kept of the type and quantity of all materials in each windrow, in pounds. (yard waste averages 400lb. per yard)

13. Product use:

Product will be sold or given away for Horticulture and/or Agriculture use.