

S T A T E

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T E N N E S S E E

March 13, 2006

Project No.:

County:

Contract No.:

SPECIAL PROVISION

REGARDING

COMPOST

**Description.** Furnish and place 1-1/2" depth of compost for areas to receive planting/landscaping as shown on the plans.

**Materials.** Furnish compost that has been produced by aerobic (biological) decomposition of organic matter and meets requirements of Table 1.

Compost feedstocks may include, but are not limited to, leaves and yard trimmings, food scraps, food processing residuals, treated biosolids, manure and other agricultural residuals, forest residues, bark, and paper.

Ensure compost and/or wood chips do not contain any visible refuse, other physical contaminants, or any substance considered harmful to plant growth. Do not use materials that have been treated with chemical preservatives as a compost feedstock or as wood chips.

Provide compost meeting all applicable EPA 40 CFR 503 standards for Class A biosolids including the time and temperature standards.

Before delivery of the compost, provide quality control (QC) documentation that includes the following:

- The feedstock by percentage in the final compost product,
- A statement that the compost meets federal and state health and safety regulations,
- A statement that the composting process has met time and temperature requirements,
- A copy of the lab analysis verifying that the compost meets the requirements of Table 1.

Table 1

**Physical Requirements for Compost**

<b>Property</b>	<b>Test Method</b>	<b>Requirement</b>
Particle Size	Aggregate Size Classification Sieving	95% passing 5/8 inch 70% passing 3/8 inch
Heavy Metals Content	Tennessee Compost Regulations for Classification 1200-1-7-.11 (4) (c) for As (Arsenic), Cd (Cadmium), Cr (Chromium), Co (Cobalt), Cu (Copper), Pb (Lead), Hg (Mercury), Mo (Molybdenum), Ni (Nickel), Se (Selenium), Zn (Zinc)	Pass
Soluble Salts	Slurry Method, Mass basis	5.0 dS/m maximum*
pH	Slurry pH	5.5-8.5
Maturity	Germination and Root Elongation	>80%
Organic Matter Content	Loss on Ignition Organic Matter Method	25-65% (dry mass)
Stability	Carbon Dioxide Evolution Rate	8 or below
Fecal Coliform	Most Probable Number	1000 or less per gram

\*A soluble salt content up to 10.0 dS/m for compost used in compost-manufactured soil will be acceptable.

Provide a designated project stockpile of unblended compost for sampling and testing at the producer’s site. Maintain compost in designated stockpiles at the producer’s site until accepted by the Project Engineer. The Engineer reserves the right to sample compost at the jobsite.

- A. **General Use Compost (Composted Mulch Type A).** Composted Mulch Type A shall consist of 100% compost.
- B. **Erosion Control Compost (Composted Mulch Type B).** Composted Mulch Type B shall consist of 50% untreated wood chips blended with 50% compost measured by volume. Use wood chips less than or equal to 5 inches in length with 95% passing a 2 inch screen and less than 30% passing a 1 inch screen.

**Construction.** Prepare the types of compost for use on the project and stockpile at the jobsite.

- A. General Use Compost (Composted Mulch Type A).** Apply 1-1/2” depth in a uniform layer on prepared grades/established vegetation no less than two weeks (14 days) after herbicide has been applied, unless otherwise shown on the plans or as directed. If using Composted Mulch Type A as a backfill ingredient, in a planting soil mixture, for planting bed preparation, or as mulch, apply as shown on the plans.
  
- B. Erosion Control Compost (Composted Mulch Type B).** Use on slopes 3:1 or steeper. After excavation and embankment work is complete, apply a 1-1/2” uniform layer, unless otherwise shown on the plans or as directed. Work Compost into upper layer of soil with a small bulldozer or other suitable equipment.

**Measurement.** This item will be measured by the Unit in place (1 Unit = 1,000 Sq. ft.), or by the cubic yard in vehicles at the point of delivery.

For Composted Mulch Type B measurement, the quantity will be the composite material, compost and wood chips.

**Payment Will Be Made Under:**

Item Number	Description	Pay Unit
801-06.01	Composted Mulch (Type A)	Unit
801-06.02	Composted Mulch (Type B)	Unit