

## 2105 - SOIL COMPOST

### SECTION 2105

#### SOIL COMPOST

##### 2105.1 DESCRIPTION

This specification covers the material requirements of soil compost for use in planting trees, shrubs and other plant materials.

##### 2105.2 REQUIREMENTS

Provide compost suitable for general gardening, soil incorporation and plant backfill.

The Kansas Department of Health and Environment, Bureau of Waste Management, Topeka, Kansas maintains a current list of Kansas Permitted Composting Facilities. Provide compost from a Kansas Permitted Composting Facility that complies with **TABLE 2105-1**.

<b>Parameters</b>	<b>Range</b>
#1 PH	6.0 - 7.5
#2 Soluble Salts	5 ds (mmhos/cm) or below
#3 Nutrient Content (dry weight basis)	N .8% or above, P 1% or above
#4 Bulk Density	28 to 35 lbs/cu ft (450 to 560 kg/m <sup>3</sup> )
#5 Moisture Content	30 - 40%
#6 Organic Matter Content	>35% of dry weight
#7 Particle Size	pass through a ½ inch or smaller screen
#8 Stability (Maturity)	#6 or #7 (Solvita Compost Maturity Test)

Cover compost after processing at the composting site, during transport and at the project site.

Conduct the tests a maximum of 4 weeks before the compost is delivered to the project.

Provide testing results for Parameters #1 through #7 from testing conducted by Servi-Tech, Inc., Dodge City, Kansas. The Environmental Scientist will consider other testing facilities, at the Contractor's request.

Conduct the testing for Parameter #8 using a Solvita Compost Maturity Test kit. The Solvita Compost Maturity Test kit may be obtained from Woods End Research Laboratory, Inc.

Submit the results of tests conducted on the compost for Parameters #1 through #8 and a sample of the compost (one 5 pound sealed plastic bag) to the Bureau of Right of Way, Environmental Services Section before the compost is incorporated into the project.

The Environmental Scientist will visually inspect the compost sample to determine the absence of man-made materials, such as glass and plastic.

##### 2105.3 TEST METHODS

None Specified.

##### 2105.4 PREQUALIFICATION

None Required.

##### 2105.5 BASIS OF ACCEPTANCE

Approval of the required tests results by the KDOT Environmental Scientist and visual inspection of the container label to verify compliance with this Section.