

909 - SOIL COMPOST

SECTION 909

SOIL COMPOST

909.1 DESCRIPTION

Incorporate compost into the soil as designated in the Contract Documents.

909.2 MATERIALS

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 909-1**.

Parameters	Range
#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 ³)
#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)

Provide compost that is covered, after processing at the composting site, during transport and at the project site.

Submit the results of tests conducted on the compost and a sample of the compost (one 5 pound sealed plastic bag) to the Bureau of Design, Environmental Services Section before the compost is incorporated into the project. Conduct the tests a maximum of 4 weeks before the compost is delivered to the project.

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

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

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

The Engineer will accept the compost based on approval of the required tests results by the KDOT Environmental Scientist and visual inspection at the project site for compliance with specified requirements.

909.3 CONSTRUCTION REQUIREMENTS

Before incorporating the compost into areas that will be seeded, sodded or planted, thoroughly rototill the areas to a depth of 6 inches.

Spread a layer (1 ¼ ± ⅛ inch thick) of compost uniformly over the rototilled soil. Use a rototiller to mix the compost and soil to a depth of 6 inches. Fine grade the mixture by raking or dragging to eliminate high spots and low spots. Lightly roll or otherwise compact the soil surface.

Mix compost with the backfill material for all plants. By volume, mix 1 part compost with 5 parts soil from the planting hole.

909.4 MEASUREMENT AND PAYMENT

The Engineer will not measure the specified work for separate payment.