

# Materials Sampling Guide

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### Section 9

#### Grading

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and Gradation (if specified)	

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Minimum Material Certificate, Sample and Inspection Requirements							
MATERIAL	TYPE OF TEST	Q.C. SAMPLING AND TESTING BY CONTRACTOR	VERIFICATION SAMPLING AND TESTING BY NDOR			LOCATION OF ADDITIONAL INFORMATION	
Section: 9 – Grading			FIELD PERSONNEL	BRANCH LAB	LINCOLN LAB	NOTE No.	PAGE No.
1) Embankment (Cohesive & Granular)	Moisture - Density	-----	<p>In-place moisture-density tests for each 1000 - 3000 cubic yards, depending on the soil type or as need is indicated by changes in soil material. In cases of structure backfill, short deep embankments or other special situations, the sampling frequency should be increased as determined by the Project Manager to adequately represent the soil material.</p> <p>If tested layer is disturbed by construction operations, rain, etc. , check tests shall be taken to assure compliance with specifications prior to subsequent construction.</p> <p>Project personnel to supply the sample needed to perform the testing shown under the Branch/Lincoln Lab column.</p>	<p>Compaction curve data usually will be furnished by the Materials and Research Division. In those cases where these are not available, large samples (approximately 60 pounds) for compaction curves shall be submitted to the Lincoln Laboratory or Branch Laboratory by project personnel.</p>	<p>Compaction curve data usually will be furnished by the Materials and Research Division. In those cases where these are not available, large samples (approximately 60 pounds) for compaction curves shall be submitted to the Lincoln Laboratory or Branch Laboratory by project personnel.</p>	---	---
	Gradation (if specified)	-----	<p>One sample each 1000 – 3000 cubic yards depending on the soil type, or as need is indicated by changes in soil material. In cases of short sections or structure backfill, each section should be represented by tests to adequately represent the material in the fill.</p> <p>Project personnel to supply the sample needed to perform the testing shown under the Branch/Lincoln Lab column.</p>	<p>One 12 pound sample for correlation test each mile, or in cases of short sections, or structure backfill, the number of samples is to be increased to adequately correlate the samples taken in the field. (Duplicate of sampled tested in the field) This sample can be submitted to the Lincoln Laboratory or Branch Laboratory by project personnel.</p>	<p>One 12 pound sample for correlation each mile, or in cases of short sections, or structure backfill, the number of samples is to be increased to adequately correlate the samples taken in the field. (Duplicate of sample taken in the field) The sample can be submitted to the Lincoln Laboratory or Branch Laboratory by project personnel.</p>	---	---