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## Standard Practice for Sampling with a Scoop<sup>1</sup>

This standard is issued under the fixed designation D 5633; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon ( $\epsilon$ ) indicates an editorial change since the last revision or reapproval.

### 1. Scope

1.1 This procedure covers the method and equipment used to collect surface and near-surface samples of soils and physically similar materials using a scoop.

1.2 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

### 2. Referenced Documents

#### 2.1 ASTM Standards:<sup>2</sup>

D 4687 Guide for General Planning of Waste Sampling

D 5088 Practice for Decontamination of Field Equipment Used at ~~Nonradioactive~~ Waste Sites

D 5283 ~~Practice for Generation of Environmental Data Related to Waste Management Activities: Quality Assurance and Quality Control Planning and Implementation<sup>2</sup>~~ Practice for Generation of Environmental Data Related to Waste Management Activities: Quality Assurance and Quality Control Planning and Implementation

D 5792 Practice for Generation of Environmental Data Related to Waste Management Activities: Development of Data Quality Objectives

D 6044 Guide for Representative Sampling for Management of Waste and Contaminated Media

D 6232 Guide for Selection of Sampling Equipment for Waste and Contaminated Media Data Collection Activities

#### 2.2 Other Documents:

Pierre Gy's Sampling Theory and Sampling Practice, Francis F. Pitard<sup>3</sup>

### 3. Summary of Practice

3.1 The top layers of material are removed down to the required sample depth using a shovel or other suitable equipment. A clean scoop is then used to collect the actual sample, which is placed in a sample container.

### 4. Significance and Use

4.1 This practice is intended for use in collecting samples of contaminated soils and similar materials.

4.2 Scoops are used primarily for collecting samples near the surface. Subsurface samples can be obtained by first removing higher layers using a shovel or other suitable equipment and collecting the sample with the scoop.

4.3 Because of their simplicity, scoops are useful in taking samples of waste materials where decontamination or disposal is a problem with other types of sampling equipment. Scoops are also suitable for use in rapid screening programs, pilot studies, and other semi-quantitative investigations.

4.4 Samples should be collected in accordance with an appropriate work plan (see Practice D 5283 and Guide D 4687).

### 5. Sampling Equipment

5.1 A shovel or other suitable equipment can be used for the initial removal of overburden material. This equipment should be manufactured from material that is compatible with the soil or waste to be sampled. The scoop must be manufactured from material

<sup>1</sup>This practice is under the jurisdiction of ASTM Committee D34 on Waste Management and is the direct responsibility of Subcommittee D34.01.03 on Sample Preservation.

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<sup>2</sup>This practice is under the jurisdiction of ASTM Committee D34 on Waste Management and is the direct responsibility of Subcommittee D34.01.03 on Sampling Equipment.

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<sup>3</sup>For referenced ASTM standards, visit the ASTM website, [www.astm.org](http://www.astm.org), or contact ASTM Customer Service at [service@astm.org](mailto:service@astm.org). For *Annual Book of ASTM Standards*, Vol 11.04, volume information, refer to the standard's Document Summary page on the ASTM website.

<sup>4</sup>Annual Book of ASTM Standards, Vol 04.09.

<sup>5</sup>Available from CRC Press, Inc., 2000 Corporate Blvd., NW, Boca Raton, FL 33431.