



Standard Practice for Sampling Soils and Contaminated Media with Hand- Operated Bucket Augers¹

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1. Scope

1.1 This practice describes the procedures and equipment used to collect surface and subsurface soil and contaminated media samples for chemical analysis using a hand-operated bucket auger (hereafter referred to as a bucket auger; sometimes referred to as a barrel auger). Several types of bucket augers exist and are designed for sampling various types of soil. All bucket augers collect disturbed samples, but bucket augers can also be used to auger to the desired sampling depth and then, using a core-type sampler, collect a relatively undisturbed sample.

1.2 This practice does not cover the use of large (12-in. or greater diameter) bucket augers mechanically operated by large drill rigs or similar equipment, such as those described in Practice [D1452](#), section 3.2.4.

1.3 The term bucket auger is used to differentiate this type of hand operated auger from others of the solid or hollow stem types that are also hand held or operated.

1.4 This practice does not address sampling objectives (see Practice [D5792](#)), general sample planning (see Guide [D4687](#)), sampling design (for example, where to collect samples and what depth to sample [see Guide [D6044](#)]), sampling for volatile organic compounds (see Guide [D4547](#)), equipment cleaning and decontamination (see Practice [D5088](#)), sample handling after collection such as compositing and subsampling (see Guide [D6051](#)), and sample preservation. For information on other types of augers, see Practice [D1452](#) and Guide [D4700](#).

1.5 *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.*

¹ 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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2. Referenced Documents

2.1 *ASTM Standards*:²

- [D1452 Practice for Soil Exploration and Sampling by Auger Borings](#)
- [D4547 Guide for Sampling Waste and Soils for Volatile Organic Compounds](#)
- [D4687 Guide for General Planning of Waste Sampling](#)
- [D4700 Guide for Soil Sampling from the Vadose Zone](#)
- [D5088 Practice for Decontamination of Field Equipment Used at Waste Sites](#)
- [D5283 Practice for Generation of Environmental Data Related to Waste Management Activities: Quality Assurance and Quality Control Planning and Implementation](#)
- [D5434 Guide for Field Logging of Subsurface Explorations of Soil and Rock](#)
- [D5681 Terminology for Waste and Waste Management](#)
- [D5792 Practice for Generation of Environmental Data Related to Waste Management Activities: Development of Data Quality Objectives](#)
- [D6044 Guide for Representative Sampling for Management of Waste and Contaminated Media](#)
- [D6051 Guide for Composite Sampling and Field Subsampling for Environmental Waste Management Activities](#)
- [D6232 Guide for Selection of Sampling Equipment for Waste and Contaminated Media Data Collection Activities](#)
- [D6282 Guide for Direct Push Soil Sampling for Environmental Site Characterizations](#)
- [D6286 Guide for Selection of Drilling Methods for Environmental Site Characterization](#)

3. Terminology

3.1 *Definitions*—Except where noted, all terms and symbols in this practice are in accordance with the following publications. In order of consideration they are:

- 3.1.1 Terminology [D5681](#) for Waste and Waste Management,
- 3.1.2 Compilation of ASTM Standard Terminology, and

² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.