



Designation: D6759 – 24

Standard Practice for Sampling Liquids Using Grab and Discrete Depth Samplers¹

This standard is issued under the fixed designation D6759; 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 (ϵ) indicates an editorial change since the last revision or reapproval.

1. Scope

1.1 This practice describes sampling devices and procedures for collecting samples of liquids or sludges, or both, whose upper surface can be accessed by the suitable device. These devices may be used to sample tanks that have an appropriately sized and located sampling port.

1.2 This practice describes and discusses the advantages and limitations of the following commonly used equipment, some of which can be used for both grab and discrete depth sampling: dipper, liquid grab sampler, swing jar sampler, Bacon bomb, Kemmerer sampler, discrete level sampler, liquid profiler, peristaltic pump, and the syringe sampler.

1.3 This practice provides instructions on the use of these samplers.

1.4 This practice does not address sampling devices for collecting ground water.

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, health, and environmental practices and determine the applicability of regulatory limitations prior to use.*

1.6 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

2. Referenced Documents

2.1 ASTM Standards:²

D4687 Guide for General Planning of Waste Sampling

D4840 Guide for Sample Chain-of-Custody Procedures

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

D5358 Practice for Sampling With a Dipper or Pond Sampler

D5612 Guide for Quality Planning and Field Implementation of a Water Quality Measurement Program

D5681 Terminology for Waste and Waste Management

D5743 Practice for Sampling Single or Multilayered Liquids, with or Without Solids, in Drums or Similar Containers

D5792 Practice for Generation of Environmental Data Related to Waste Management Activities: Development of Data Quality Objectives

D5956 Guide for Sampling Strategies for Heterogeneous Wastes

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

D6233 Guide for Data Assessment for Environmental Waste Management Activities (Withdrawn 2016)³

D6311 Guide for Generation of Environmental Data Related to Waste Management Activities: Selection and Optimization of Sampling Design

D6323 Guide for Laboratory Subsampling of Media Related to Waste Management Activities

D6538 Guide for Sampling Wastewater With Automatic Samplers

D6699 Practice for Sampling Liquids Using Bailers

3. Terminology

3.1 Definitions:

3.1.1 *discrete depth sample, n*—sample obtained from a defined level within the liquid being sampled.

3.1.2 *grab sample, n*—individual sample collected over a period of time usually not exceeding 15 min and in such a

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.

Current edition approved June 1, 2024. Published June 2024. Originally approved in 2002. Last previous edition approved in 2016 as D6759 – 16. DOI: 10.1520/D6759-24.

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

³ The last approved version of this historical standard is referenced on www.astm.org.