



Designation: ~~D5358 – 93 (Reapproved 2009)~~ **D5358 – 93 (Reapproved 2014)**

Standard Practice for Sampling with a Dipper or Pond Sampler¹

This standard is issued under the fixed designation D5358; 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 the procedure and equipment for taking surface samples of water or other liquids using a dipper. A pond sampler or dipper with extension handle allows the operator to sample streams, ponds, waste pits, and lagoons as far as 15 ft from the bank or other secure footing. The dipper is useful in filling a sample bottle without contaminating the outside of the bottle.

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:*²

D4687 Guide for General Planning of Waste Sampling

D5088 Practice for Decontamination of Field Equipment Used at Waste Sites

2.2 *Other Documents:*

EPA-600/2-80-018 Samplers and Sampling Procedures for Hazardous Waste Streams³

EPA-600/4-84-076 Characterization of Hazardous Waste Sites-A Methods Manual: Volume II. Available Sampling Methods, Second Edition³

3. Summary of Practice

3.1 The dipper is lowered into the liquid and lifted out while avoiding splashing or otherwise disturbing the surface layer. The sample is then poured into a sample container.

4. Significance and Use

4.1 This practice is intended for use in the sampling of surface waters and other liquids.

4.2 Dipper equipment is uncomplicated in construction, simple to use, and relatively easy to decontaminate; however, this practice will not provide accurate results with multiphase liquids.

4.3 This practice is to be used by personnel acquiring samples.

4.4 The dipper is best used to take a *surface* sample of liquid. No attempt should be made to take subsurface samples with a dipper because mixing and dilution will occur as the dipper is brought to the surface. Subsurface layers must be sampled using a device that can be closed prior to bringing it to the surface (for example, a COLIWASA, tube sampler, or bottle sampler).

4.5 The dipper is not appropriate for sampling multiphase liquids if quantitative characterization is needed.

4.6 When volatile organic analysis (VOA) will be performed, samples obtained with a dipper should be poured into an appropriate container (VOA vial) with minimal air contact and agitation.

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 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.

³ Available from Standardization Documents Order Desk, Bldg. 4 Section D, 700 Robbins Ave., Philadelphia, PA 19111-5094, Attn: NPODS.