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AMERICAN SOCIETY FOR TESTING AND MATERIALS
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Standard Guide for Sample Selection of Debris Waste from a Building Renovation or Lead Abatement Project for Toxicity Characteristic Leaching Procedure (TCLP) Testing for Leachable Lead (Pb)¹

This standard is issued under the fixed designation E 1908; 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 guide describes a method for selecting samples from the debris waste stream created during demolition, renovation, or lead abatement projects. The lead toxicity of the waste then is determined by analysis of the leachate resulting from use of the Toxicity Characteristic Leaching Procedure (TCLP).

1.2 This guide is intended for use to sample debris waste created by renovation or lead abatement projects in and around buildings and related structures to determine the lead (Pb) toxicity of the waste.

1.3 This guide is intended for use when sampling to test for lead (Pb) only and does not include sampling considerations for other toxic metals or for toxic organic compounds. This guide also does not include consideration of sampling for determination of other possible hazardous characteristics of the waste.

1.4 This guide assumes that the individual type debris wastes are at least partially segregated and that each type waste may be viewed easily.

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.*

2. Referenced Documents

2.1 ASTM Standards:

D 4840 Practice for Sampling Chain of Custody Procedures²

E 105 Practice for Probability Sampling of Materials³

2.2 Federal Documents:

Title 40, Code of Federal Regulations, Part 261, Appendix

II-Method 1311, Toxicity Characteristic Leaching Procedure (TCLP)⁴

Interim Final Report, Lead-Based Paint Contaminated Debris-Waste Characterization Study No. 37-26-JK 44-92, May 1992–May 1993⁵

2.3 OSHA Standard:

OSHA Lead in Construction Standard, 29 CFR 1926.62⁶

3. Terminology

3.1 Definitions of Terms Specific to This Standard:

3.1.1 *component (of the waste), n*—each of those different and distinguishable materials that comprise the waste. Also may be defined by locally-applied law or regulation.

3.1.2 *sample (of the waste), n*—a collection of the components of the waste assembled in proportion to their contribution to the total volume of the waste. Also may be defined by locally-applied law or regulation.

3.1.3 *waste, n*—material resulting from conduct of a demolition, renovation, or lead abatement project that is or will be directed for disposal. Also may be defined by locally-applied law or regulation.

3.1.4 *waste stream, n*—the total flow of waste from a demolition, renovation, or lead abatement project. Also may be defined by locally-applied law or regulation.

4. Summary of Practice

4.1 The entirety of the waste created by renovation or lead abatement projects in and around buildings and related structures is examined visually, and estimates made of the total volume of the waste and of the relative volume proportions of the various components of the waste. A sample of the waste is selected and assembled that contains the various waste components in the same relative volume proportions as these estimates. The sample then is submitted to a laboratory for conduct of the TCLP procedure and analysis for lead as defined within those procedures.

¹ This guide is under the jurisdiction of ASTM Committee E-6 on Building Performance and is the direct responsibility of E06.23 on Abatement of Hazards from Lead in Buildings and Related Structures

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² Annual Book of ASTM Standards, Vol 11.01.

³ Annual Book of ASTM Standards, Vol 14.02.

⁴ Available from Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.

⁵ Available from Commander, U.S. Army Environmental Center, ATTN: SFIM-AEC-EC, Bldg. E4435, Aberdeen Proving Ground, MD 21010-5401.

⁶ Available from OSHA.