

Office of Solid Waste and Emergency Response (OSWER)

Standard Guide for Greener Cleanups

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Web Links:

U.S. EPA Greener Cleanups http://www.epa.gov/oswer/greenercleanups/standard.html

U.S. EPA CLU-IN/Green Remediation Focus

http://www.cluin.org/greenremediation/subtab_b5.cfm

ASTM International

http://www.astm.org/Standards/ E2893.htm **Purpose**

The investigation and cleanup of contaminated properties consumes energy, water, and natural resources, creating an environmental footprint. Greener cleanups strive to consider all

To provide a process and technical direction on how to reduce the environmental footprint of a cleanup.

environmental effects during a cleanup and incorporate approaches to minimize the footprint. The goal of the U.S. Environmental Protection Agency (EPA) greener cleanup standard initiative is to maintain, through a consensus process, a standard that improves the environmental outcome of cleanups.

Status

ASTM International issued the <u>Standard Guide for Greener Cleanups</u> (E2893-13) in November 2013. The standard guide provides a systematic protocol to identify, prioritize,

select, implement, and report on the use of greener cleanup best management practices (BMPs). It includes a list of more than 160 BMPs, provides an option for integrating a quantitative evaluation, and includes a reporting structure to promote public availability of information relating to the decision-

The standard complements regulatory and voluntary cleanup programs and accommodates each phase of a cleanup.

making process and outcomes across the five core elements for greener cleanups.

Core Elements of Greener Cleanup

- ◆ Minimize total energy use and maximize use of renewable energy
- ♦ Minimize air pollutants and greenhouse gas emissions
- Minimize water use and impacts to water resources
- Reduce, reuse, and recycle material and waste
- ◆ Protect land and ecosystems

Two adjuncts support the standard guide's use. One adjunct is the Appendix X2 "Technical Summary Form" as a writable PDF. The second is the Appendix X3 "Greener Cleanup BMPs" table in an Excel format, which enables users to sort BMPs by remediation technology and core element and to add their own BMPs to the table.

EPA representatives continue to work with the ASTM task group on future updates to the standard guide, based on technology developments and user input.

Benefits

EPA anticipates that use of the standard guide will:

- Make it easier for regulators and the regulated community to implement greener cleanups
- Serve as a protocol for contracting purposes
- Build upon state and local government incentives for greener cleanups
- Establish a framework to support new tools for evaluating impacts from cleanups

Background

EPA supported the initiative by:

- ◆ Identifying greener cleanup core elements that were incorporated into OSWER's cross-program *Principles for Greener Cleanup* policy
- ◆ Coordinating with ASTM International, a standard developing organization, on materials to kick-off the consensus-based process
- Facilitating a dialogue among EPA and state cleanup program representatives volunteering to serve on ASTM International's task group drafting the standard
- Issuing a <u>Memorandum to Regional Administrators and OSWER Office Directors</u> recommending that regions and OSWER programs facilitate and encourage its use

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