

# Perspectives on the Implementation of Greener Cleanups

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Clu-In Webinar  
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# Webinar Agenda

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- ◆ USEPA Updates on Greener Cleanups. *Carlos Pachon*
- ◆ Award winning application of the ASTM Standard Guide for Greener Cleanups at Travis AFB. *Lonnie Duke*
- ◆ ASTM Greener Cleanups Self-Declaration at Marine Corps Base Camp Lejeune. *Monica Fulkerson*
- ◆ North Ridge Estates: Applying the ATSM Guide a USEPA Superfund Site. *Linda Meyer & Sarah Babcock*
- ◆ Implementing Greener Cleanups at a Portfolio Level. *Geraldine Wolf*
- ◆ Open discussion

# Updates on Greener Cleanups

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## Why Greener Cleanups?

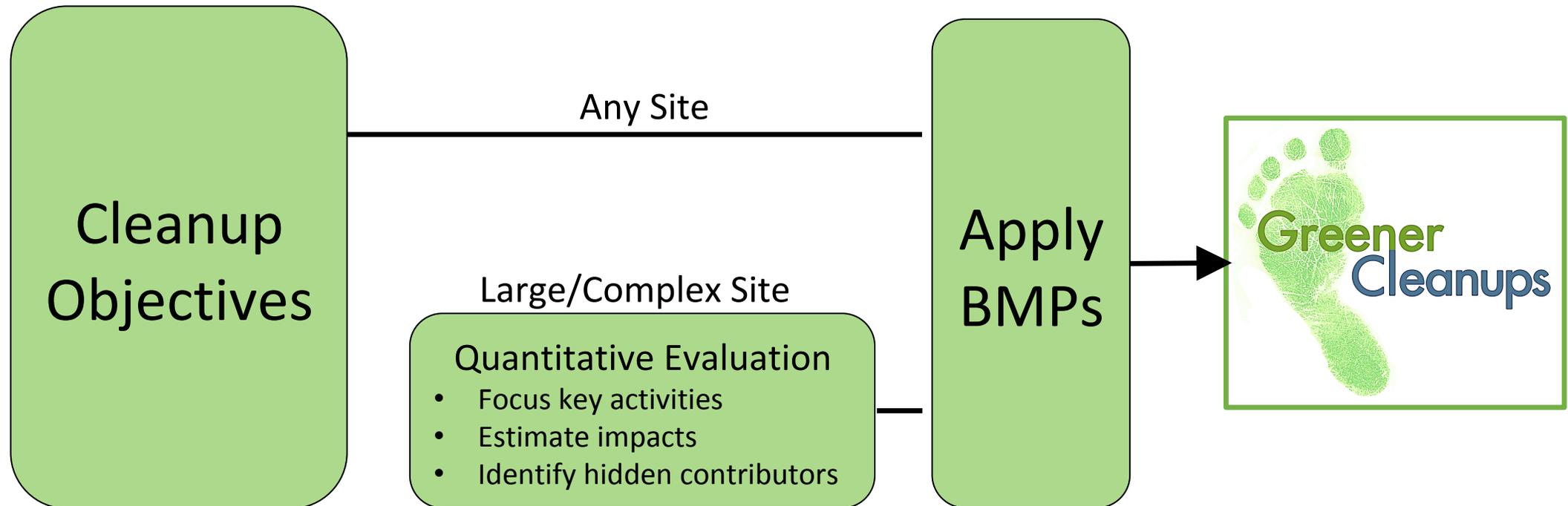
Greener cleanups build sustainable practices into our core mission: protect human health and the environment



<https://www.epa.gov/greenercleanups>

# Two Approaches: Same Endpoint

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# ASTM's Standard Guide for Greener Cleanups

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- Supports the tenets of EPA's Greener Cleanup Principles
- Applicable to individual or multiple phases of a cleanup
- Identifies and employs best management practices "BMPs"
- Offers an option for a quantitative evaluation
- Promotes transparency through a robust reporting structure
- Compatible with all cleanup programs

# Best Management Practice Process

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- **Step 1:** Opportunity Assessment
- **Step 2:** BMP Prioritization
- **Step 3:** BMP Selection
- **Step 4:** BMP Implementation
- **Step 5:** BMP Documentation

*Particulate emissions may be important for a region in non-attainment*

*The water footprint may be important in arid lands*

*GHG emissions may be important to a municipality with GHG reduction goals*

*Waste generation may be important for a community with concerns regarding landfill space*

# Common Themes Across Today's Case Studies

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- Presentations by site owners, consultants, and regulators: We all have a chance to make a difference in footprint reductions
- The use of a protocol to identify and select footprint reduction opportunities and practices (3 projects used ASTM Guide)
- BMPs are often applied to reduce the environmental footprint of remedies in our existing portfolio
- We see footprint reductions across all core elements
- Team approach: No one person owns the footprint reduction

# Forward Momentum:

## Policy, Tools & Practice

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- Greener cleanups are consistent with Agency policy and authorities:  
Greener cleanups are consistent with the goals of EO13834 (May 17, 2018)
- The ASTM Standard Guide for Greener Cleanups is an effective tool for all parties at the project level
- EPA preparing to release updated SEFA footprint tool (summer 2018) EPA Superfund continues to advance greener cleanups (Optimization, Remedial Action Framework)
- Site cleanup consulting and engineering companies are increasingly incorporating greener cleanup practices into their standard operations