

# **DOE Perspectives on Performance-Based Contracting Impacting Innovative Technology Use**

## **Federal Remediation Technologies Roundtable**

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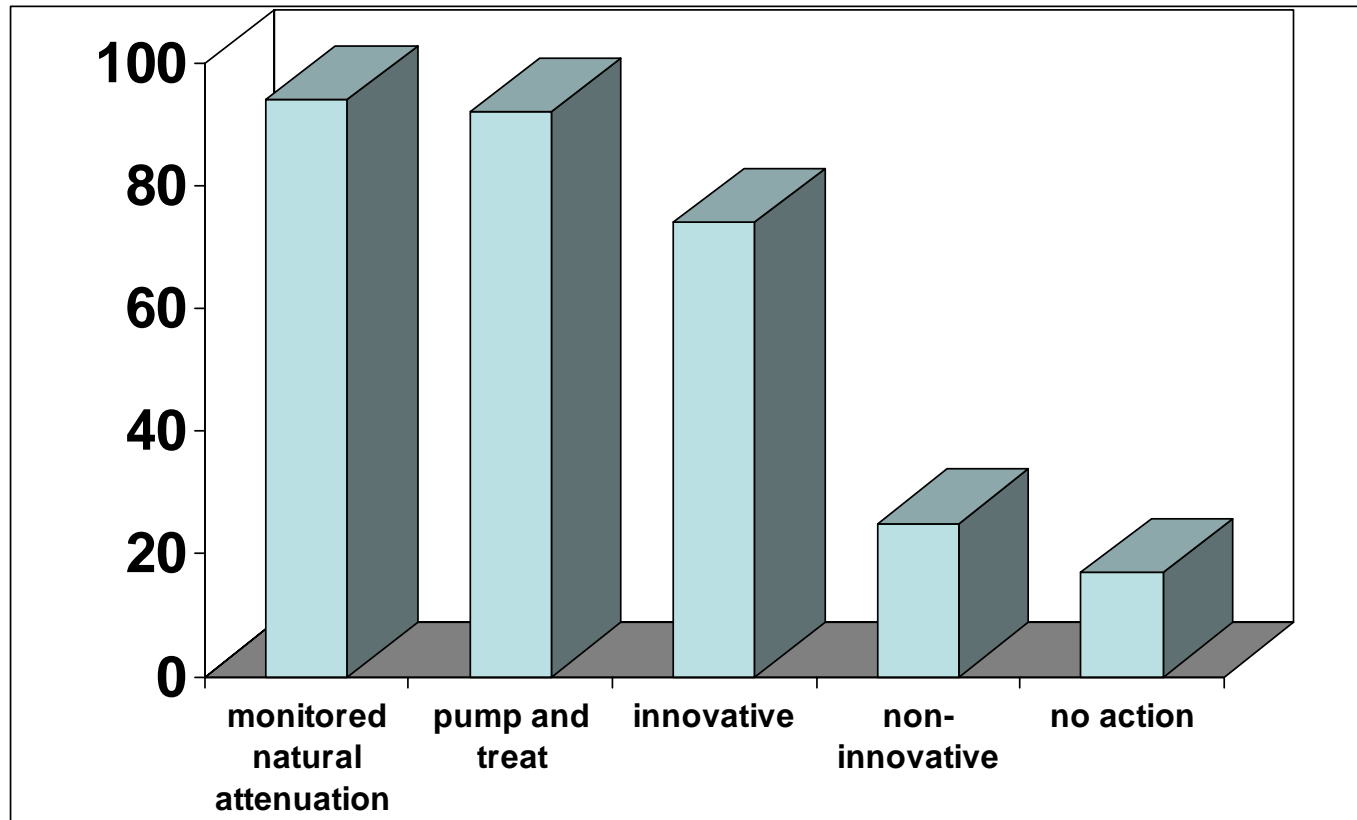
**Department of Energy**

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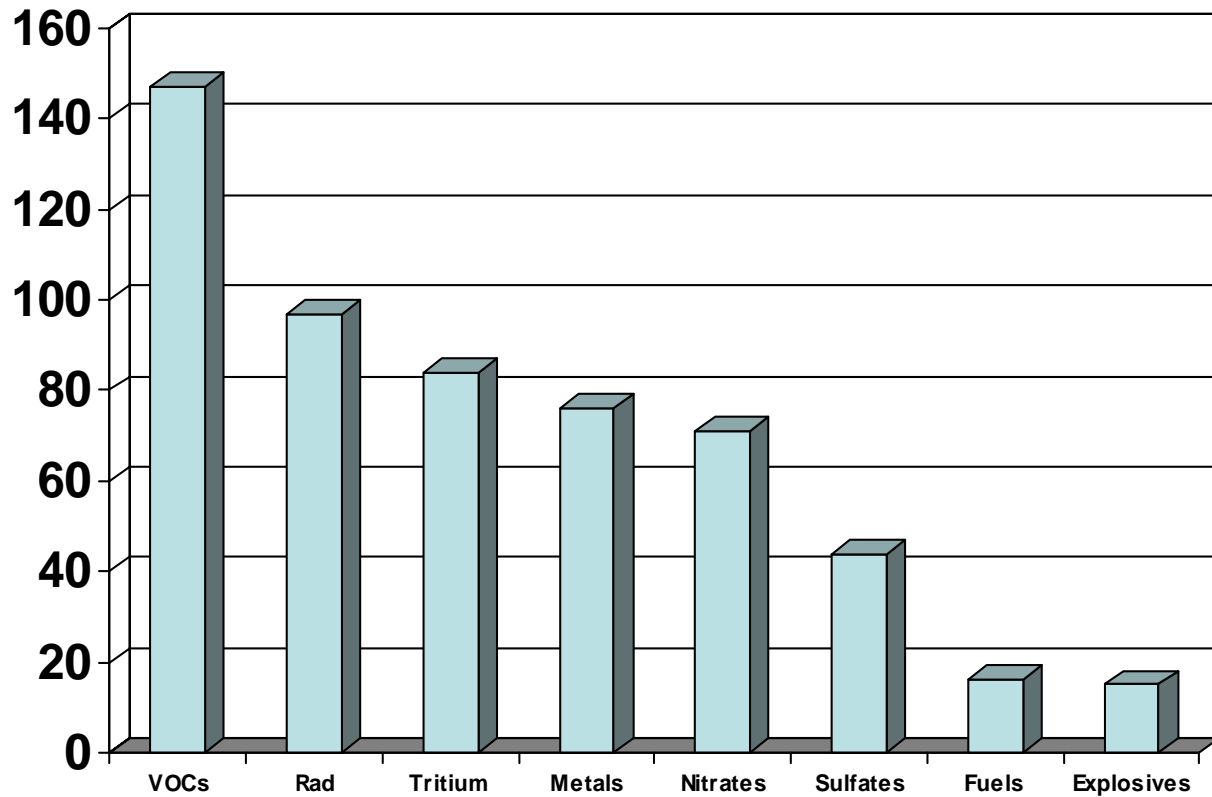
# Scope of DOE Cleanup Program

- **Over 60 installations in 22 states**
- **Cleanup program-D&D of nuclear facilities, groundwater and soil remediation, and the stabilization and disposal of nuclear waste [Estimated cost from FY 05-35 is ~ \$80-90B]**
- **Primary contaminants: radionuclides, metals, and dense nonaqueous-phase liquids [Estimated cost for soil and groundwater remediation from FY 05-35 is ~ \$10-15B]**
- **222 groundwater plumes with 302 remedies either confirmed or proposed [more than one remedy often deployed to cleanup a plume]**
- **Different geologic and geochemical characteristics**
- **Mixture of Contaminants**

# Ground Water Remedies Identified



# Ground Water Contaminants



# **Drivers for DOE Cleanup Program**

- **Applicable Federal and State Regulations**
- **Safety**
- **End use of property**
- **Cleanup standards versus technology capability**
- **New and emerging technologies**

# **Cleanup Technologies and Performance Measures**

- Investment in technology development and deployment is linked to corporate performance measures, performance management plans, site end use, and site baselines**
- Focused on four sites - RL, ORP, ID, & SRS**
- Technologies include: Passive Reactor Barrier; Dynamic Underground Stripping; and In-Situ Redox Manipulation**
- Development of integrated groundwater exit strategies**
- Performance measures: ROD approved & Remediation Complete at a Site**