Triad in the States New Jersey DEP and ITRC

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Why Use Triad?

War on caseload
 Supports Brownfields initiative



- Improve project focus & communications
- Eliminate excessive data needs
- Savings of \$4,430,000 for 11 projects "Using The Triad Approach To Improve The Cost-Effectiveness Of Hazardous Waste Site Cleanups", EPA 542-R-01-016, October 2001

Implementation Plan

Supportive NJDEP Policy
Training for staff & consultants
Triad guidance document
Pre-qualification of Triad practitioners



Policy Statement

• DEP supports and encourages Triad DEP evaluated the Technical Rules for compatibility with Triad Triad users are encouraged to use an MOA See www.nj.gov/dep/srp/triad/ for policy statement & guidance document

NJDEP Guidance Document

Policy Statement Triad Overview Technical Rules **Compatibility** with Triad Application of Field Analytical Methods (When) Field Analytical Techniques (What)

NJDEP Guidance Document

Specific Advantages of Field Analysis
Selection of a Field Analytical Method
Quality Assurance Requirements
References/Resources
Glossary



Correlating Real-Time Data with Standard Methods

Can document bias in the real-time method
Can aid interpretation of data that are not analyte-specific
Degree of correlation can be calculated





Open Issues & Future Orientation Sessions

Certification for FAMs Electronic data Technical support on Websites Technical sessions/field days for real-time measurement technologies Annual Triad orientation

sessions



Regulatory Acceptance For New Solutions



ITRC Mission

ITRC is a state-led, national coalition of regulators and others working to

improve state permitting processes and

ACCEPTANCE

speed implementation of new environmental technologies.

Participating Organizations

- Industry representatives
- Academia
- Public stakeholders
- Federal agencies



U.S. Department of Energy





U.S. Department of Defense

Host organization:



Environmental Council of the States

State organizations:



Western Governors' Association



Southern States Energy Board

ITRC Products And Services

- Regulatory and Technical Guidelines
- Technology Overviews & Case Studies
- Peer Exchange
- Technology Advocates
- Classroom Training Courses
- Internet-Based Training Sessions



Nationwide Success



Active ITRC Technical Teams

- Alternative Landfill Technologies
- Brownfields
- Constructed Wetlands
- Contaminated Sediments
- Dense Nonaqueous Phase Liquids
- Diffusion Samplers
- DOE Gate 6 Technologies
- In Situ Bioremediation

- MTBE-Contaminated Groundwater
- Permeable Reactive Barriers
- Radionuclides
- Remedial Process Optimization
- Sampling, Characterization, and Monitoring (SCM)
- Small Arms Firing Range
- Unexploded Ordnance

SCM Team

Value:

Addresses innovations/paradigm shifts in sampling & monitoring related to real-time information, continuous monitoring, and monitoring for site closure and long-term stewardship

Lead: Stuart J. Nagourney, NJDEP

Members: 12 State Agencies
EPA, DOD, DOE
Academia
Industry



SCM Team & Triad

How can the SCM Team promote Triad and change behavior?

- Identify regulatory barriers & propose solutions
- Highlight TRIAD case studies
- Obtain multi-state acceptance for TRIAD
- Train/educate regulatory and technical communities



SCM Team

Deliverables

- FAM inventory & associated QA guidelines
- TRIAD technical regulatory document
- Case studies
- Technical regulatory document on direct push wells
- Survey state agency views on applying FAMs



SCM Team

Future Projects

- Develop guidance on Triad workplan development
- Examine sensor technology as applied to environmental remediation
- Research methods for real-time data presentation
- Work with European consortium on NORISC

ITRC Contacts

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