

Triad Campaign for 2002

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HTRW-CX



Triad Campaign - 2002

- Review of Draft Guidance Documents
 - Integrating Dynamic Field Activities into the Superfund Response Process
 - PM Handbook (draft pending)
 - Repository for Technology Quick Reference Sheets (TQRS) Forms
 - Triad Case Studies
 - Field Analytic Technologies Encyclopedia (FATE)
 - Monthly Teleconferences – **Next one: 11 Mar 02**
 - Triad Brownbag Training or Project Facilitations
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Triad Presentations Repository

Presentations http://nws-web.nws.usace.army.mil/eRoom/USACESeattleDistrict/ITATriad/0_2e



ITATriad Presentations

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The Triad Approach

**Systematic
Planning**



**Dynamic
Work Plans**

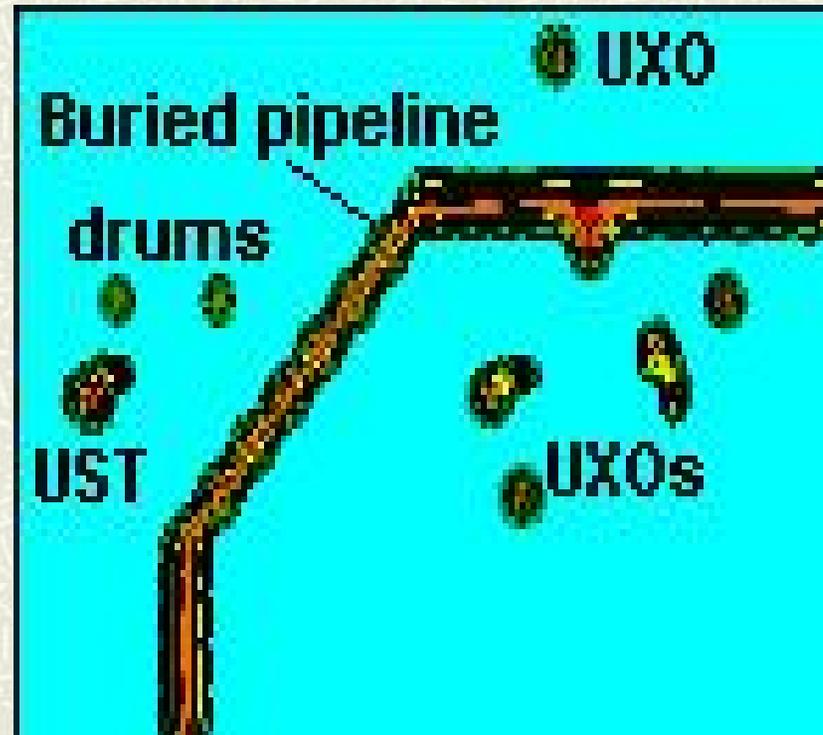
**Real-time Measurement
Technologies**

Application of the Triad to Environmental Projects

- Thorough Project Background Information Needed
 - Process' Performed Onsite
 - Supplies
 - Wastestreams
 - Disposal Practices
 - Supports initial assessment of **WHAT** and **WHERE** contamination may exist onsite....
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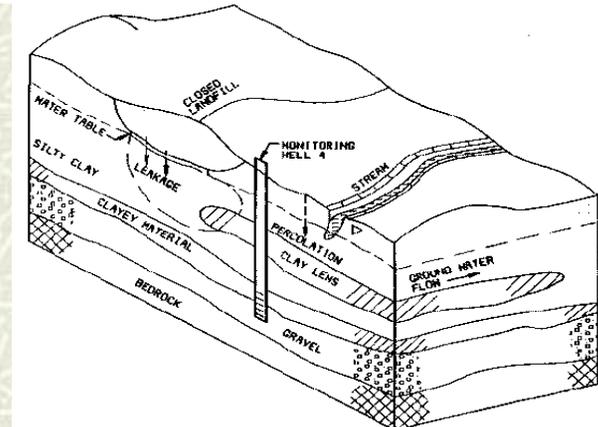
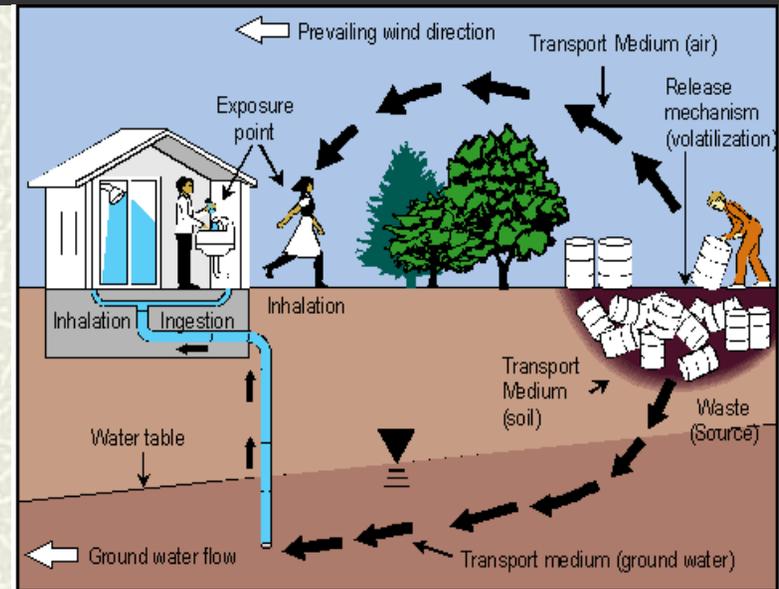
Develop Initial Conceptual Site Model

- Gleans background information about the site into a visual representation of that data
- Provides a mechanism to communicate key site features and how they interact
- Scoping / planning tool



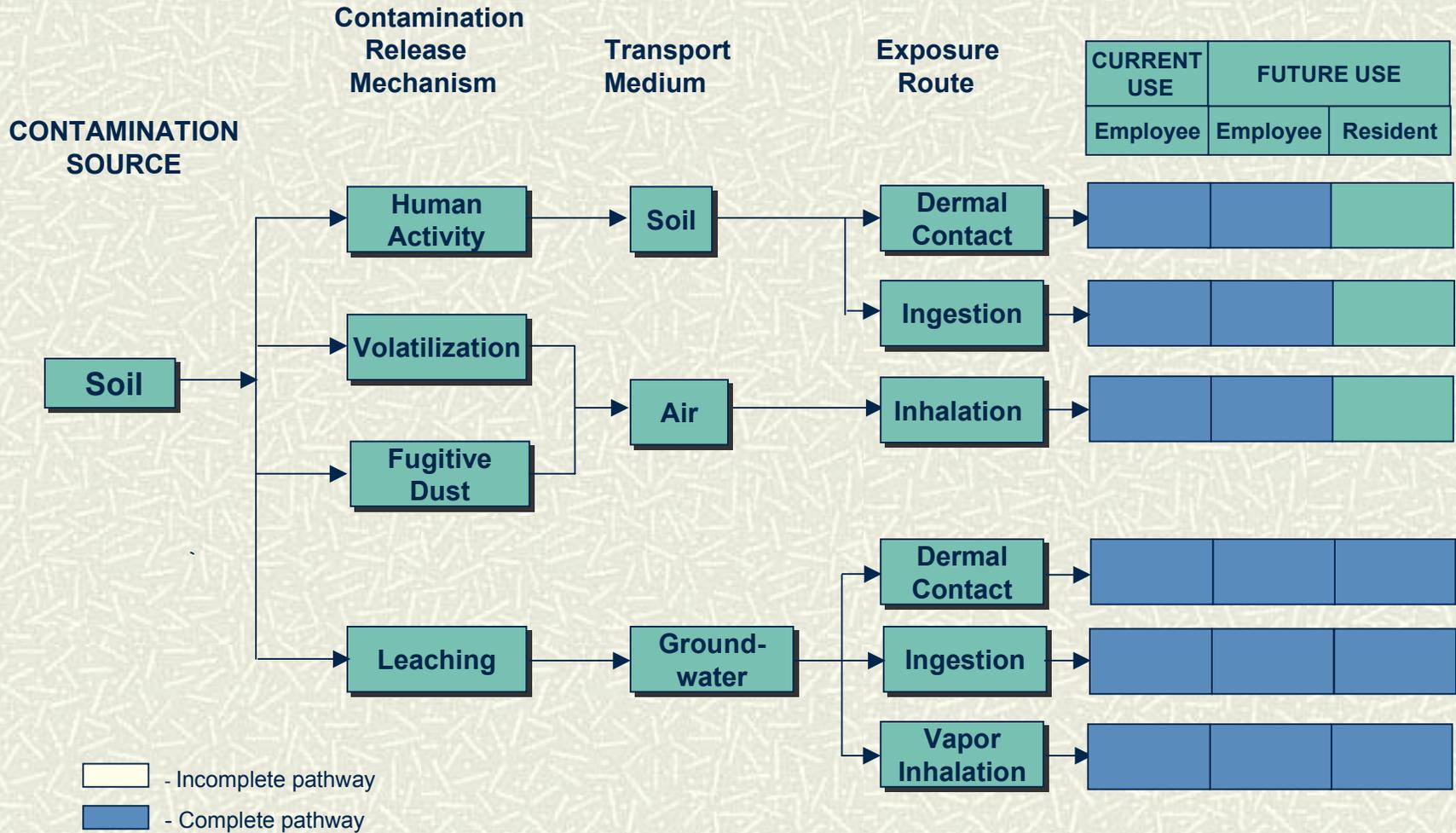
Conceptual Site Model

- Reflects different sources of information to individual planners
 - Source-pathway-receptor diagrams to support Risk Assessment
 - Various dimensional maps or Cross-sectional views of contamination



GRAPHIC CSM

Potential Exposure Pathways



EXPOSURE PATHWAYS FOR HUMAN RECEPTORS

Technical Project Planning (Systematic Planning for Triad)

Also understanding

Future Use of the Property



will help determine

Site End Goals

These critical elements along with other inputs (e.g., regulatory authority, customer input, potential presumptive remedies, estimated onsite concentration ranges) are used to determine appropriate members of the

Technical Planning Team

Technical Planning Team

- Project planning may be initiated with a smaller core team of technical personnel
 - Review preliminary project information to determine what **Course of Activities or Objectives** can evaluate site conditions and work to reach site end goals.
 - Core technical team members must **identify other support personnel needed**, and coordinate / work with them to establish, meet and/or modify project objectives
-

Technical Project Planning (Systematic Planning for Triad)

In order to develop an effective Sampling and Analytical strategy....we have to understand

- Data's intended Purpose, and the Objective it supports
 - Perspective of the data user, any any Assumptions associated with that data's use
 - Onsite/offsite Decisions being made to support Project Objectives
 - Uncertainty allowed or associated with these decisions
 - Project constraints (time, budget, regulatory)
 - Physical restrictions associated with site conditions or onsite activities
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Technical Project Planning (Systematic Planning for Triad)

- Contaminants of Potential Concern (COPC) must be continually updated based on new data and information, and evaluated to identify potential indicator compounds present.
 - Consider the contaminant's form, release mechanism, distribution, fate/transport potentials of the contaminants within the surrounding media.
 - Concentration of interest must consider expected concentrations onsite as well as project action levels
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Technical Project Planning (Systematic Planning for Triad)

- Sample Density Requirements / Site Coverage Needs
 - Project Objectives
 - Intended Use of Data
 - Uncertainty Requirements
 - Size of Site
 - Heterogeneity Issues
 - Leading to an assessment of **Number of Samples** needed.
-

Technical Project Planning (Systematic Planning for Triad)

- Move beyond the use of SW-846 as a rote suite of analytical protocols applied without forethought
- Establish an integrated Analytical Strategy that monitors **project-specific Contaminants of Concern** in a manner that supports field decision-making, and the intended use of the data.
- Avoid misapplication of trace chemical analyses to high concentration samples



In Summary...

- There are several other critical elements needed to support the Triad....
 - Progress with guidance, scoping tools, project facilitations, and technical resources will lead to easier, more successful implementation of the Triad principals at our district offices.
 - I invite you to come learn more....
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