ISM Document and Training Roadmap

Introduction
- Challenges/Opportunities
- Principles
- Systematic Planning
- Statistical Design

Plan
- Field Implementation
- Lab Processing

Implement
- Making Decisions

Assess

Application
- ISM Opportunities

Part 1
- Section 2
- Section 3
- Section 4

Part 2
- Section 5
- Section 6
- Section 7

ISM Document
- Section 8
# ISM Document and Training Roadmap: Are You Getting a Representative Sample at Your Sites?

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Security Classification: Unclassified
Are You Getting a Representative Sample at Your Sites?
ITRC’s ISM Solution

Web-Based Document at: http://www.itrcweb.org/ISM-1/
ISM Applications

- Regulated sites
- Former pesticide-applied orchards
- Floodplain-impacted soils
- Stockpiled soil
- Post-soil treatment sampling
- Dredged materials
ISM Applications (continued)

- “Back 40”
- Firing ranges
- Confirmatory sampling
- Background
- Other
  - Fill material
  - “Rail to trail” sites

Small Arms Firing Range
A Cost Comparison: ISM vs. Discrete
What Can ISM Do For Me?

- Unbiased estimate of the mean
- Improved spatial coverage
- Increased sample representativeness
- Address most common sources of sampling error
- Reduced data variability
What to Remember about ISM

- Calculation of a 95%UCL limited to two methods: student’s t and Chebyshev
- No spatial resolution within Decision Unit
The primary objective of sampling is to obtain a representative sample.