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Safety Requirements for Sampling at Military Munitions Response Program Sites

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Why?



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EP 75-1-2



- Need for Ordnance & Explosives (OE) Safety precautions during HTRW projects at Military Munition Response Program (MMRP) sites
- Original intent was to support well installation in a Munitions & Explosives of Concern (MEC) environment
- Expanded to include any project where presence of MEC was known or suspected



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Types of Support

- Anomaly Avoidance
- UXO Support During Construction Activities (“Construction Support”)



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Anomaly Avoidance

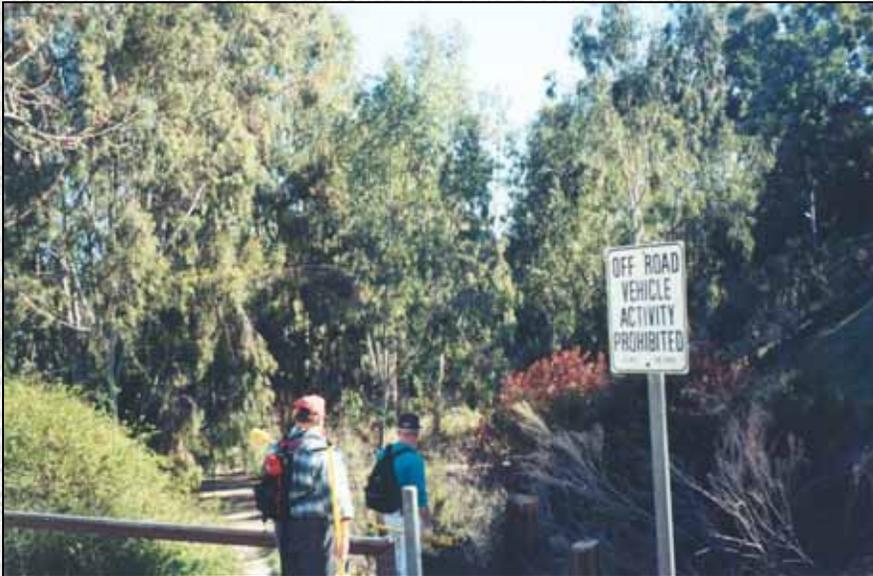
- Purpose is to avoid potential surface UXO and subsurface anomalies
- Used where project is flexible, e.g., monitoring well installation, soil/gas sampling
- Also used where limited, or no, intrusive activity is required, e.g., archaeological surveys, area surveys.....

***INTRUSIVE ANOMALY INVESTIGATION IS
NOT AUTHORIZED!***



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Anomaly Avoidance





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Anomaly Avoidance Planning



Work plan

- Supplements HTRW contractor's work plan
- Must include:
 - UXO specific SSHP
 - Geophysical instrumentation to be used
 - UXO Team composition
 - Type of UXO procedures needed
 - Access Surveys
 - Down-hole monitoring



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Anomaly Avoidance



UXO Team

- Conducts UXO Safety Briefings for **all** site personnel
- Conducts site visits
- Implement work plan



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Construction Support



- Purpose is to ensure safety of project personnel
- Used for HTRW and/or construction activities without flexibility, e.g., soil remediation, building construction



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Types of Construction Support



- Type of Support is determined based on current or previous land use that led to a determination that MEC may be present
- UXO Safety Support
 - When probability of encountering UXO is low
 - Purpose is to allow UXO trained individuals observe spoils to detect any MEC that may have been uncovered
- Subsurface clearance
 - When probability of encountering UXO is moderate to high
 - Purpose is to remove all surface MEC and subsurface anomalies that potentially are MEC



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Construction Support



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Subsurface Clearance/Removal



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Construction Support Planning



Work Plan

- Supplements HTRW contractor's work plan
- Must include:
 - UXO specific SSHP
 - Geophysical instrumentation to be used
 - UXO Team composition
 - Type of UXO procedures needed
 - OE disposition procedures
 - Explosives siting plan (if required)
 - Emergency procedures



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Construction Support Planning



Explosives Safety Submission (ESS) (if required)

- Contact OE MCX for determination
- Revised DOD 6055.9-STD will require ESS
- Ensures compliance with applicable DOD/Army explosives safety policy
- UXO operations will not start before ESS approval



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Subsurface Clearance



- Additional considerations
 - Underground utilities
 - Exclusion zones
 - Geophysical mapping
 - Anomaly excavation
 - UXO transport and destruction
 - Explosives management
 - Temporary explosives storage facility



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Encounter Chemical Warfare Material

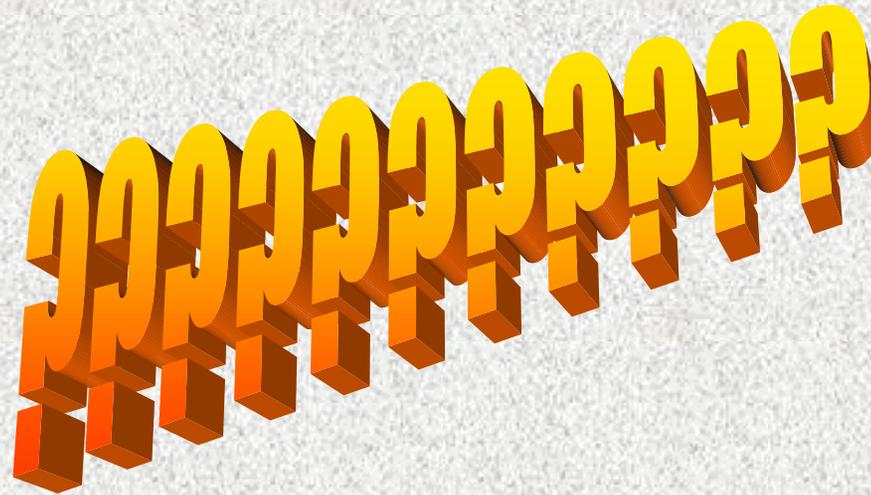


- **Immediately Stop Work**
- Withdraw Upwind
- Report to Proper Authorities
- Secure the Site Until Relieved



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Questions



Download EP 75-1-2 at
<http://www.usace.army.mil/publications/>

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