

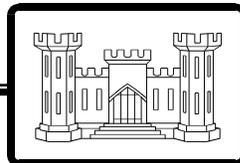
# ER 1110-1-263 Update

## Chemical Data Quality Management for HTRW Remedial Activities

**John Nebelsick**

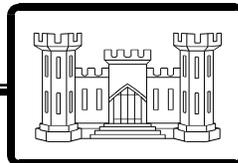
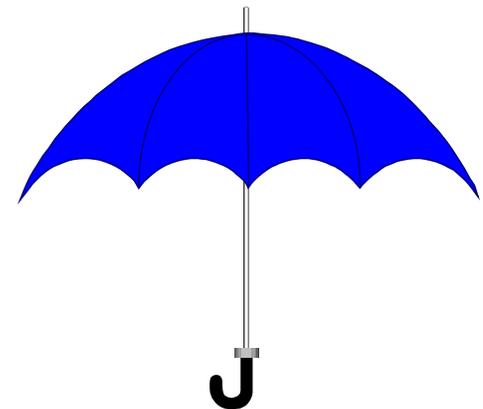
**Chemical Data Quality Management Branch**

**5 March 2002**



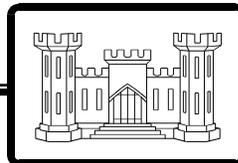
# PURPOSE

- Umbrella Regulation
- Flexible CDQM Program That Produces Data of Known Quality to Satisfy Project Specific Data Quality Objectives



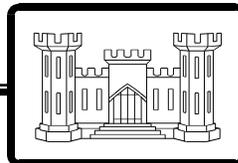
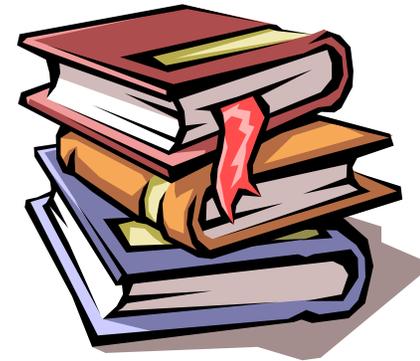
# APPLICABILITY

- USACE commands responsible for HTRW projects



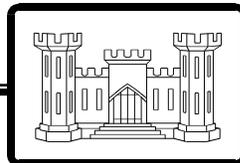
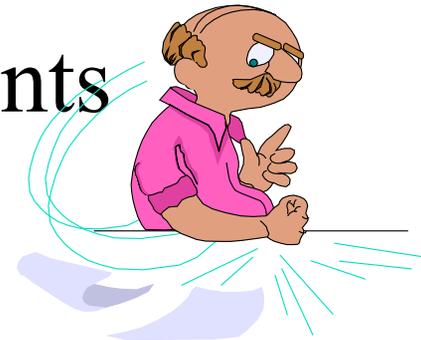
# POLICY

- ER 5-1-11 (PMBP)
- Produce Products and Services
  - Quality
  - Timely
  - Cost Effective
  - Legal
  - Meet Customers Expectations



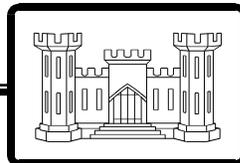
# REQUIREMENTS

- Systematic Planning Process
- Analytical Service Providers Compliant with ISO/IEC Guide 17025
- Documentation in Accordance with ANSI/ASQC E4
- Product Usability Assessments



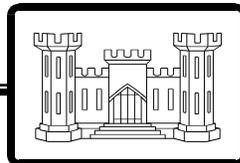
# CDQM Strategy

- Application of Existing Guidance
  - EM 200-1-1 Laboratory Validation
  - EM 200-1-2 Technical Project Planning
  - EM 200-1-3 Sampling and Analysis Plans
  - EM 200-1-6 Chemical Quality Assurance
- Uniform Federal Policy
- Recent Law(?)



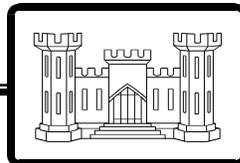
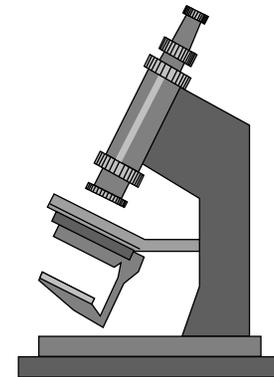
# CDQM Philosophy

- Chemist Involved in the Planning Process
- Chemist Designs CDQM for each Project
- If PM Does Not Use all the Elements Identified by the Chemist Must Produce MFR
- MFR Must have Concurrence of Project Team
- Customer Should Participate



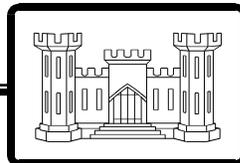
# HQ Responsibilities

- CDQM System
- Administering Policy Oversight
- HTRW Chemistry Policy Dissemination and Implementation



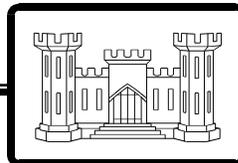
# HTRW-CX Responsibilities

- Monitor Accreditation of Labs
- Approval of Program SOPs
- Chemistry Technical Support
- Chemistry Document Review
- Audit Labs
- Feedback to HQ
- Guidance Development Program



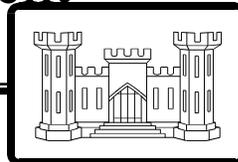
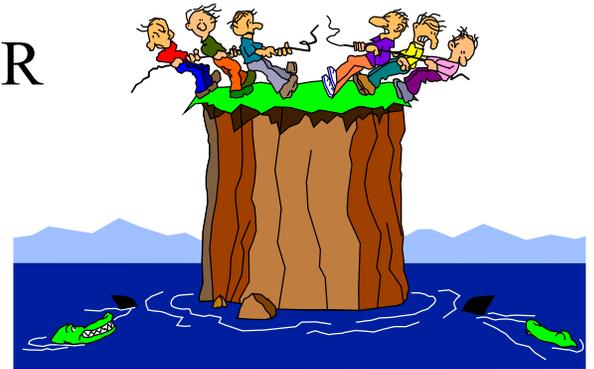
# Division Responsibilities

- Ensure Their Design Districts Adhere to CDQM Policy
- Administer Policy Oversight
- Feedback to HQ
- Ensure Corrective Actions on District Non-conformances



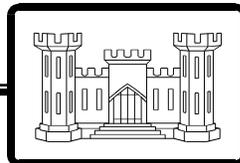
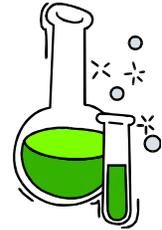
# District Responsibilities

- Determine Requirements for Sampling and Analysis Plans
- Project Planning to Ensure Data Quality
- Obtain Data of Known Quality by Using Validated Labs
- Develop Project-Specific DQOs
- Data Review to Determine Data Quality
- Assess Data Usability in Form of CDQAR
- Corrective Action Feedback to Division
- Perform Contract Oversight
- Contract Management
- Feedback Through Division to HQ on Chemistry Guidance
- Perform Project Management



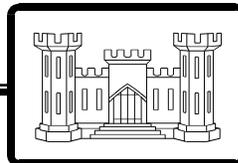
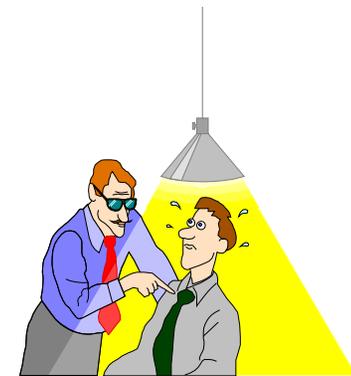
# ECB Responsibilities

- Provide Support to Districts/CX/HQ
  - Chemistry Technical Support
  - Technical Assistance to Districts
  - Inspection of QA Sample Shipments & Reporting Deficiencies
  - QA Sample Analysis
  - Independent Assessment of Data (CQAR)
  - Technical Assessment of Guidance Documents



# Technical System Audits

- Conducted by Divisions
- Audited Entity Shall Prepare Corrective Action Plan
- Corrective Action Plan Shall Be Submitted to the Division
- Reports Findings to HQ



# Point of Contact

John Nebelsick

HTRW Center of Expertise

(402) 697-2572

[john.d.nebelsick@usace.army.mil](mailto:john.d.nebelsick@usace.army.mil)

