

10th DoD Environmental Monitoring and Data Quality Workshop

April 2014

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Chair, DoD Environmental Data Quality Workgroup



Tuesday, April 8	
7:30	Registration
7:45	
8:00	
8:15	
8:30	Welcome Opening Plenary
8:45	
9:00	
9:15	
9:30	Legal Defensibility is an Oxymoron
9:45	
10:00	
10:15	
10:30	Break
10:45	
11:00	SW-846 Update V Summary
11:15	
11:30	
Lunch	Lunch
1:00	2013 DoD LCS Study Applications
3:00	
3:15	Break
3:30	Fast Analysis of Chlorinated Phenoxy Herbicides in Environmental Samples by Negative ESI LC/MS/MS

Wednesday, April 9

7:30

Registration

7:45

8:00

EPA Method 8330B

10:30

Break

10:45

Military Munitions Response Program

Lunch

Lunch

1:00

Military Munitions Response Program

2:15

Break

2:30

Emerging Contaminants

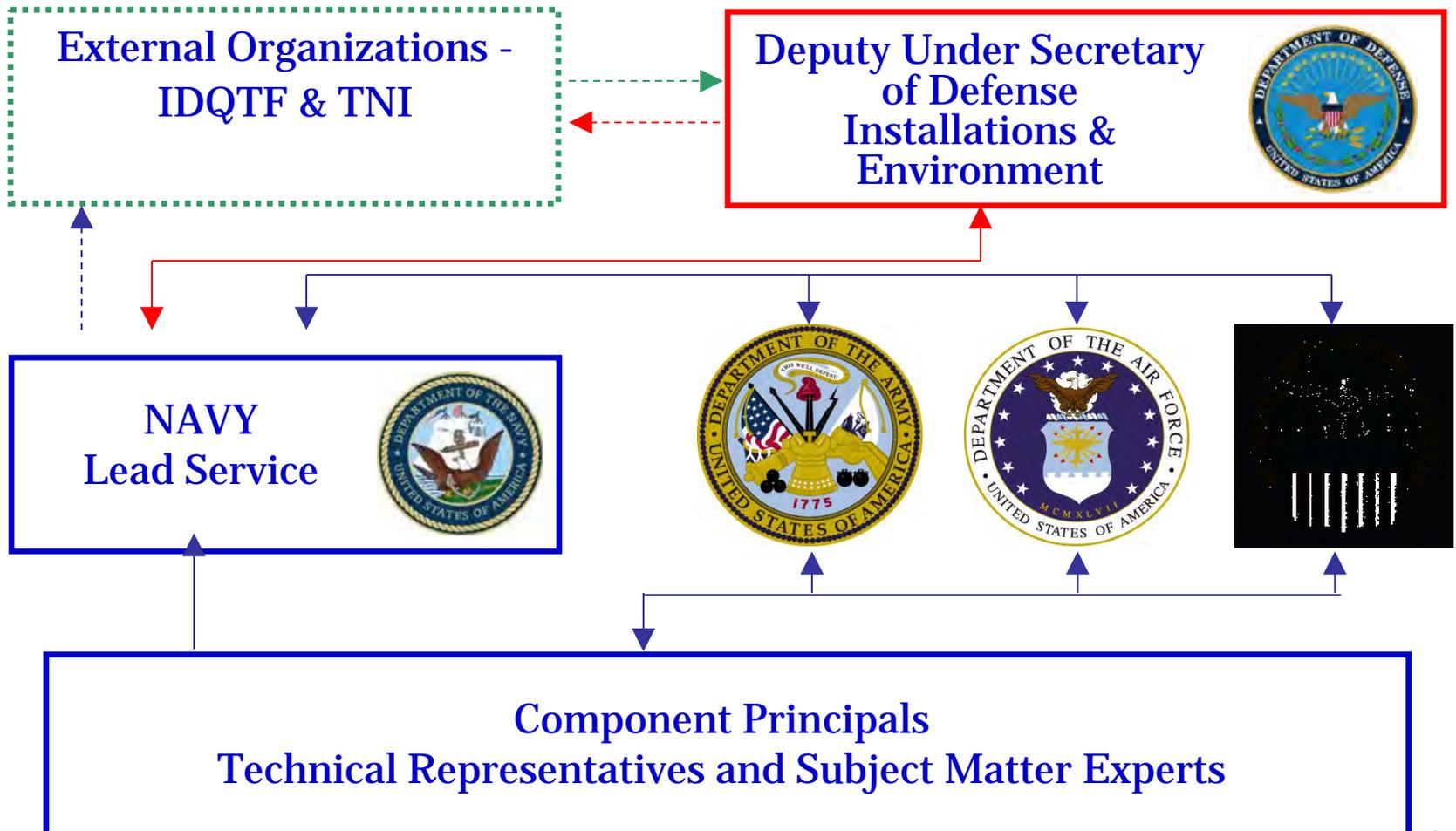
Thursday, April 10	
7:30	Registration
8:00	QSM 5.0 Frequently Asked Questions
8:45	Laboratory Audit Findings Comprehensive Everglades Restoration Program- Quality Assurance Oversight Team
9:15	Assessment Body Presentations
10:45	Break
11:00	FUDSChem- From Laboratory to Database: Journey of FUDS Data
11:15	
11:30	LUNCH
1:00	Automating the Quality Assurance Process of Electronic Data Deliverables and the Different Uses of Electronic Deliverables for Visualization, Trending, and Presentation
1:30	Implementation of the QSM 5.0 to Produce Definitive Data for Multiple Methods in a DoD ELAP Mobile Laboratory Setting
2:00	Electronic Data Validation Using the Locus Information System
2:30	Understanding Radiochemistry Validation- An Overview of What Makes Radiochemistry Data Unique
3:15	Break
3:30	DoD ELAP Open Session

Environmental Data Quality Workgroup

Charter Issued 01 October 2010

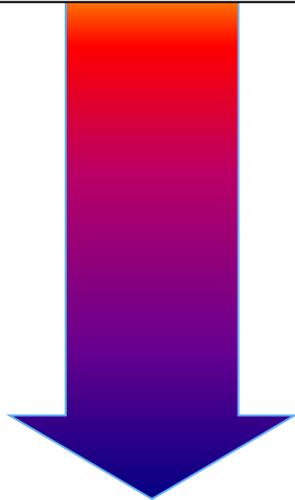
- * Develop and recommend policy related to sampling, testing, and quality assurance for environmental programs to eliminate redundancy, streamline programs, improve data quality, and promote data integrity.
- * Coordinate the exchange of information among DoD components.
- * Develop DoD issuances to implement environmental quality systems and promote cost effective government oversight.
- * Implement and provide oversight of the DoD ELAP

DoD EDQW



Strategy To Achieve Charter Tasking

Identify Industry
and DoD Best
Practices



Save time, reduce program costs,
ensure decisions are based on sound
data

- * Implement national and international standards
- * Use systematic planning process
- * Improve management and contracting practices
- * QA/QC policy/guidance
- * Improve oversight
- * Promote consistency

EDQW Initiatives

- * Version DoD/DOE QSM Version 5
- * Updated LCS Study
- * SERDP/ESTCP
- * Laboratory Accreditation
- * Intergovernmental Data Quality Task Force (IDQTF)
 - * Advanced Geophysical Classification

DoD/DOE Quality Systems Manual for Environmental Laboratories (DoD QSM V. 5.0, DOE V. 3)

- * DoD QSM / DOE QSAS
 - * *Draft DoD/DOE Manual completed*
 - * Consolidation of DoD QSM and DOE QSAS
 - * Compliant with 2009 TNI standard
- * Benefits
 - * *Unified approach to LOD and LOQ.*
 - * *Use of tables for minimum QC in the absence of project direction.*
 - * *Unified radiochemical definitions and requirements.*
 - * *Unified legal/evidentiary custody and LIMS requirements.*
 - * *Consistent uniform direction from both DOE and DoD programs.*

DoD/DOE Quality Systems Manual for Environmental Laboratories (DoD QSM V. 5.0, DOE V. 3)

- * Consolidates DoD/DOE requirements
- * Implements ISO/IEC 17025:2005
- * Implements 2009 TNI Quality Systems Standard
- * Basis for DoD ELAP accreditation
- * Basis for DOE qualification under the DOE Consolidated Audit Program (DOE CAP)

*Potential to share resources
for laboratory oversight*

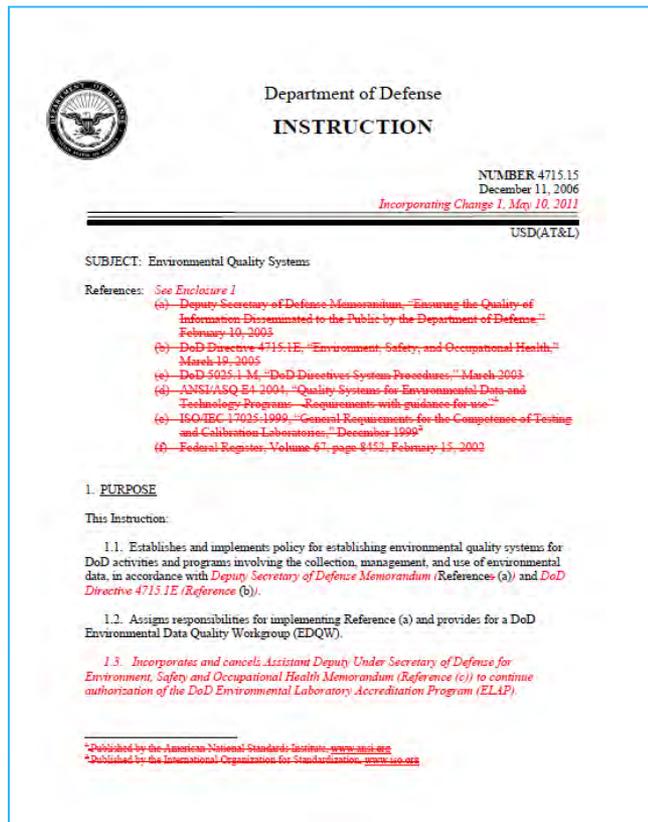
LCS Study Update

- * Evaluated routine ELAP laboratory performance using SW-846 methods
- * Established minimum method performance criteria
- * 1999 DoD Study: 9 methods, 20+ laboratories
- * 2013 DoD/DOE Study: 23 methods, 52 laboratories
- *Results from 2013 consistent with 1999 values*
- *Updated limits published in QSM V 5.0*

SERDP/ESTCP

- * Providing technical support to SERDP/ESTCP
 - * Participate in progress reviews
 - * Provide Data Quality Support for Reviews
 - * Quality control
 - * Quality assurance
 - * Sampling design
 - * Goal is to ensure that resulting products are:
 - * Of documented quality
 - * Reproducible
 - * Defensible

Environmental Laboratory Accreditation Program (DoD ELAP)



- * Est. by ADUSD(ESOH)
- * Effective 1 October 2009
- * Objectives:
 - * Promote reciprocity;
 - * Promote fair and open competition;
 - * Streamline procurement process;
 - * Promote the collection of data of known and documented quality, suitable for their intended uses; and
 - * Allow DoD to focus on project specific reviews

DoD ELAP

- * DoD-wide program acceptance
- * Applies to collection of *definitive data* for environmental restoration programs
- * Laboratory compliance with DoD QSM
- * Accreditation performed by AB's
- * EDQW performs oversight of program
- * Project managers select accredited laboratories

DoD ELAP

Accreditation Bodies

- * American Association for Laboratory Accreditation (A2LA)
- * ANSI-ASQ National Accreditation Board (ACLASS)
- * Laboratory Accreditation Bureau (L-A-B)
- * Perry Johnson Laboratory Accreditation, Inc. (PJLA)

DoD ELAP – Status

(as of 3/28/14)

- * 94 laboratories accredited
- * A2LA is performing assessments to QSM Version 5.0 only. The EDQW observed first assessment.
- * ACLASS, L-A-B, and PJLA will begin assessing to QSM Version 5.0 in April 2014. The EDQW will observe assessments to Version 5 for all ABs.
- * All labs to be accredited to QSM Version 5.0 by 1/1/2016

DoD ELAP – Status

(as of 3/28/14)

- * EDQW continues to monitor DoD ELAP:
 - * Significant efforts have been made to clean up DENIX for method consistencies and to eliminate “SOP” methods. Allows DENIX to be more usable for projects and laboratories.
 - * Monitoring scopes and load sheets for consistency.
 - * Labs are being removed from DENIX once they expire, withdraw, or are suspended from DoD ELAP.
 - * Monitoring implementation of QSM Version 5.0.
 - * New QSM FAQs published on DENIX in March 2014.

DoD ELAP Distribution

Accredited

State	Labs	State	Labs	State/Province	Labs
Alaska	1	Massachusetts	4	Pennsylvania	2
Arkansas	1	Michigan	6	Rhode Island	2
California	14	Minnesota	1	South Carolina	3
Colorado	3	Missouri	3	Tennessee	4
Florida	5	Montana	1	Texas	6
Georgia	2	Nevada	1	Utah	2
Illinois	1	New Hampshire	3	Vermont	1
Indiana	1	New Jersey	2	Washington	6
Kansas	1	North Carolina	4	Wisconsin	3
Louisiana	2	Ohio	3	Italy	1
Maine	1	Oklahoma	1		
Maryland	2	Oregon	1		

DoD ELAP Resources

- * DoD ELAP Fact Sheet
- * DoD/DOE QSM V5.0
- * Detection and Quantitation Fact Sheet
- * DoD ELAP & QSM FAQ's
- * QSM v 5.0 FAQ's
- * Policy Memos
- * Published on website:
- * <https://www.denix.osd.mil/portal/page/portal/EDQW>

Intergovernmental Data Quality Task Force

Established 1998

- * Original consensus members:
 - * Director, FFRRO (Chair)
 - * DoD (EDQW Chair)
 - * DOE (EM-5)
 - * EPA (OSWER, OEI, Regions 1, 2, 5, 8)
- * MOU – Develop consensus agreements:
 - * Quality system for environmental data collection based on ANSI/ASQ E4
 - * UFP-QS
 - * UFP-QAPP
- * Federal agency roles and responsibilities for data management

Intergovernmental Data Quality Task Force

New Charter 2013

- * New IDQTF Executive Committee
 - * EPA/OEI/Quality Staff Director
 - * EPA Lead Region QAM for OEI
 - * EPA Lead Region QAM for OSWER
 - * EDQW Principals
- * Work collaboratively to address environmental issues of emerging concern at Federal Facilities and promote implementation of consistent and transparent intergovernmental quality systems at Federal facilities, for planning, collecting, and using environmental data of appropriate quality to ensure a scientific basis for environmental decision-making

IDQTF - New Charter 2013

Optimization of UFP-QAPP Worksheets

- * In 2012, the IDQTF completed work on the revision to QAPP Worksheets
- * Consolidated several of the original 37 worksheets into a final product containing 27 “optimized” worksheets.
- * The optimized worksheets address all requirements of ANSI/ASQ E4 and EPA G5
- * Currently seeking formal concurrence on the optimized worksheets among participants on the IDQTF.
- * Working on the creation of fact sheets to accompany the optimized worksheets.

IDQTF - New Charter 2013

Quality Systems Implementation Assistance

- * Assist EPA, DoD, DOE, and other governmental entities by providing advice, information, and recommendations for overall Federal policies related to the management of environmental planning and data quality at Federal facilities.
- * The IDQTF will analyze issues, hold meetings, conduct training and outreach, produce reports, and make necessary recommendations to meet its responsibilities

IDQTF - New Charter 2013

Streamlining the Characterization and Cleanup of Small Arms Ranges

- * Developing a tool to assist project teams in planning and conducting investigations at closed Small Arms Ranges
- * Drawing upon the large amount of historical data, experience, and lessons learned from previous studies
- * Based on the draft EDQW tool

IDQTF - New Charter 2013

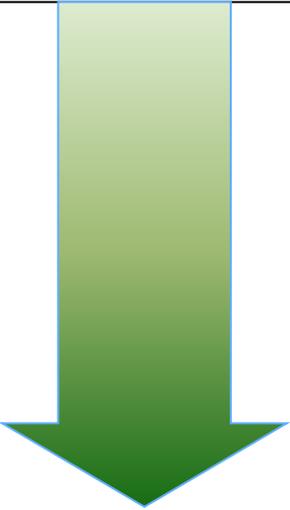
Advance Geophysical Classification

- * Develop policy and guidelines for conducting advanced classification projects based on the Uniform Federal Policy documents.
- * Develop recommendations and criteria for qualifying and assessing organizations performing advanced classification projects based on national and international standards

Leverage efforts by ESTCP and ITRC

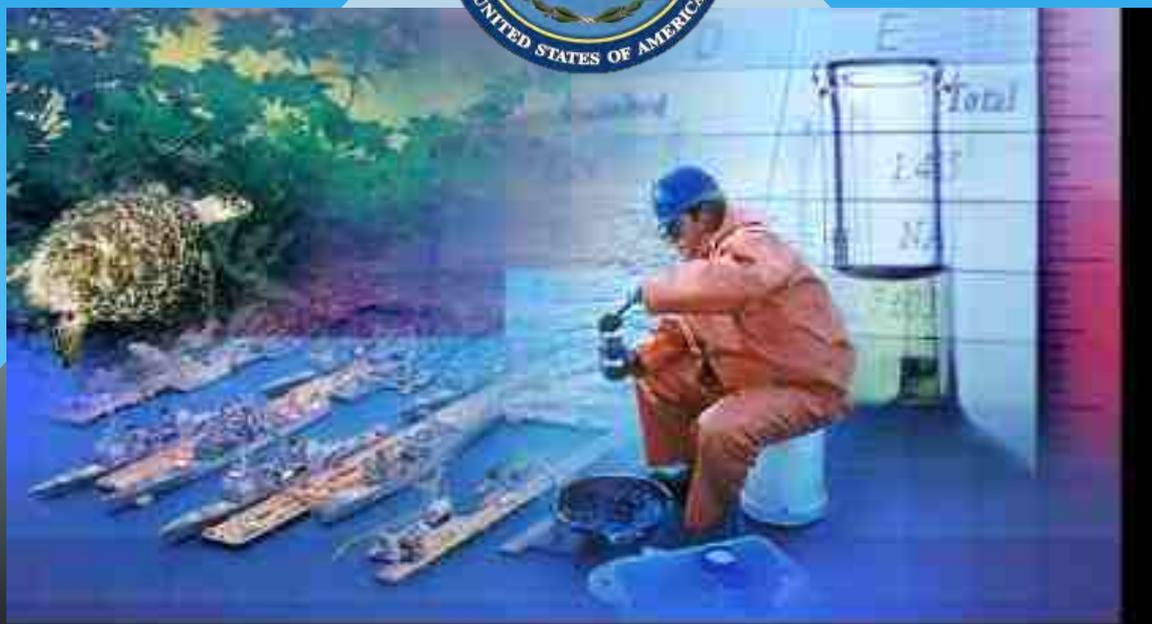
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Save time, reduce program costs,
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data

- * DoD QSM - Implement national and international standards
- * UFP QAPP - Use systematic planning process
- * Procurement Policy - Improve management and contracting practices
- * Guidelines for PSR - QA/QC policy/guidance
- * DoD ELAP - Improve oversight
- * DoD ELAP - Promote consistency



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