

EDD Accreditation

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14-Apr-2016



Electronic Data Deliverable (EDD) Accreditation

- Criteria being developed by the EDQW Data Review & Management Subgroup
- Added to DoD QSM
- EDQW Data Review & Management Subgroup co-chairs
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EDD Accreditation

- Problem
- History
- DoD QSM 5.0 Reporting Requirements
- Common problems with EDDs
- EDD review tools
- How will EDDs be accredited



Problem

- Laboratories don't produce an acceptable EDD, but are ELAP accredited for all project-required parameters



History

- USACE FUDS program
 - ▶ Laboratories required to produce a SEDD deliverable since 2004 per ER 200-1-3 Formerly Used Defense Site (FUDS) Program Policy
 - ▶ SEDD deliverable not always used for data review or not loaded into a database



DoD QSM 5.0

- Appendix A – Reporting Requirements
 - ▶ Detailed list of the items needed in a laboratory report (hard-copy data reports or electronic versions of hard-copy data)
 - ▶ Also indicates items needed for Third Party Review or Validation
 - Stage 1; Stage 2a; Stage 2b; Stage 3, Stage 4



Common Problems with EDDs

- Valid Value Errors
- Failing to populate required fields
- Duplicate records within file being loaded
- Records that are duplicates of data that has been previously loaded
- Logical inconsistencies between fields
(e.g. units disagree with matrix; analysis dates prior to collection dates)



Common Problems with EDDs

(Inconsistencies between EDD and pdf or hard copy)

- Inconsistencies in reported results between EDD and pdf
- Incorrect spike amounts / expected values
- Inconsistencies in precision between EDD and pdf (e.g. surrogate is 80 $\mu\text{g/L}$ in pdf and 79.6 in EDD; if lower limit is 80 $\mu\text{g/L}$ then the pdf would pass while the EDD would fail)



Common Problems with EDDs

(Disagreement with Project Requirements)

- Methods and/or analytes that differ from QAPP
- Field sample identifiers that differ from the chain-of-custody



Electronic Data Review Tools

- Need a well-formed EDD
- EDD screening tools
 - ▶ FUDSCHEM
 - ▶ ERPIMS
 - ▶ NIRIS
- Import into customer databases



How will EDDs be accredited

- By method?
- Inorganics and organics?
- By type of EDD (SEDD, ERIS, NEDD, ERPIMS)?



DoD ELAP EDD Field of Accreditation

- Added to DoD QSM (5.1 or later)
- Optional field of accreditation for the Lab
- Required in contracts
- Need to resolve how EDDs will be accredited
- EDQW will identify screening tools for EDD accreditation



EDD Accreditation Summary

- Problem
- History
- DOD QSM reporting requirements
- Common problems with EDDs
- EDD review tools
- How will EDDs be accredited



Questions?

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