

Staged Electronic Data Deliverable

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SEDD



EPA

- Is both a Data Generator and Data Consumer
- Has unique needs as a Data Consumer



EPA Needs as a Data Consumer

- Actual need varies by Program/Office
- Analytical data has to be of known and documented quality (legally defensible)
- Need data in a format that can be:
 - Electronically reviewed (from checking QC results to recalculation of final laboratory reported results for analytes)
 - Stored for the long term (non-proprietary)



SEDD – An Overview

- Stands for **Staged Electronic Data Deliverable**
 - An example of a Standard format for reporting environmental analytical data
- SEDD is being used by data consumers such as:
 - EPA Superfund Program
 - EPA Great Lakes National Program Office
 - US Army Corps of Engineers



SEDD: Development

- DOE/DOD/EPA's effort to create a universal EDD for analytical data – DEEMS (1995)
- SEDD is based on DEEMS and was developed by offices within EPA and US Army Corps of Engineers
- Input received from laboratory and data review stakeholders during development
- In use since 2005 for reporting chemical and radiochemical analytical results



SEDD Structure

- Structure allows users to choose formats (called Stages) to meet their reporting needs
- Stages build on each other allowing for seamless transition as user needs change
- No other format so far that allows for complete electronic recalculation of laboratory results (from instrument outputs)



SEDD File Description

- Format and Content
 - XML Format
 - Data Element Dictionary
 - Valid Values linked to International Standards
- Information Types
 - Contact Information, Sample Data, Results
 - Method Quality Control, Instrument Quality Control
 - Sample Relationships
 - Method data



Super Standard?

- SEDD comes close to a “Super Standard” for Laboratory Analytical Data (especially for data reviewers)
- Field and Monitoring Data could be added to the SEDD file, if needed



Factors preventing Interoperability

- Different EPA mandates
- Different user requirements
- Not-invented-here syndrome
- “Burger-King” Syndrome aka “I want it my way”



Possible Next Steps

- Private Sector to work with ELAB (a Federal Advisory Committee to EPA) to:
 - Form a workgroup under ELAB for data standardization AND/OR
 - Present consolidated data standardization issues to them



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