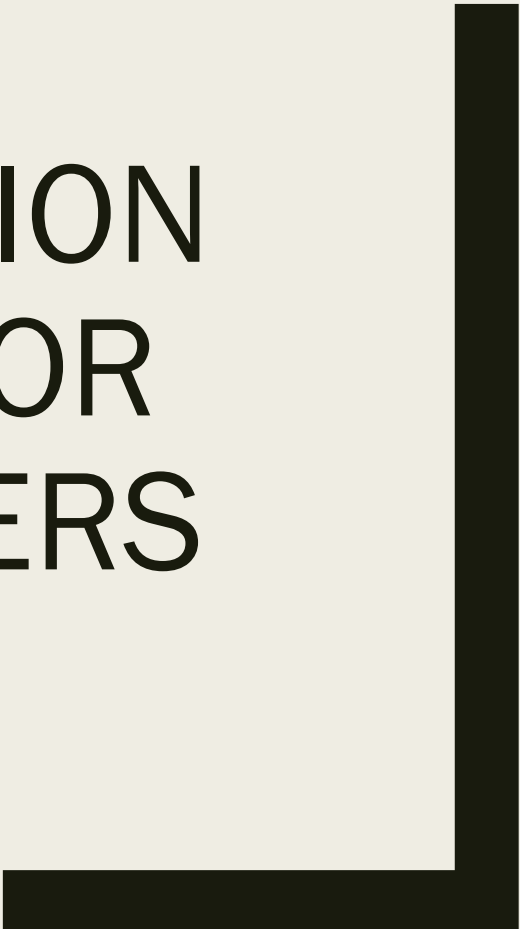




WIN DOCUMENTATION ELEMENTS FOR DEAR SAMPLERS

ROCfest
May 18, 2017



Watershed Information Network (WIN)

- Database will replace STORET
- More data quality requirements
- Data loaded through web interface
- Data Merge Tool (DMT) changes will make it easy for DEAR staff
- WIN will be “open for business” May 2017
- All data generated after July 1, 2017 will go to WIN
- Deadline to load data to STORET is December 31, 2017

Types of Content in WIN

- Organization
- Project
- Monitoring Location (Surface Water *and* Groundwater)
- Activity/Result
 - *Surface Water*
 - *Groundwater*
 - *Sediment*
 - *Soil*
 - *Tissue*
 - *Air*

Field Sample Activity Types

WIN Short Name	WIN Description
Field	Analysis of an analyte at the monitoring location. Analysis is either measured using field equipment or through qualitative observation.
Equipment Blank	Quality control blank prepared on-site during sampling by pouring analyte-free water through decontaminated field equipment into appropriate sample containers for each matrix and analyte group of interest. Equipment blanks are chemically preserved, stored, transported and analyzed with the collected field samples.
Field Blank	Quality control blank prepared on-site during sampling for each analyte group of interest and chemically preserved, stored, transported and analyzed with the collected field samples. For organizations submitting data for the purposes of FDEP regulatory use, field blanks should be collected by pouring analyte-free water into appropriate sample containers.
Field Replicate	A replicate sample taken within each combination of time, location, and any other controlled variables. The analytical results from replicates are used to determine the precision of a system. A replicate may be a duplicate, triplicate, or other multiple.
Trip Blank	A trip blank is a test sample of analyte-free media taken from the laboratory to the sampling site and returned to the laboratory unopened. They are used to measure cross-contamination from the container and preservative during transport, field handling, and storage. Usually, at least one trip blank should be prepared for each sample type per trip. For organizations submitting data for the purposes of FDEP regulatory use, one trip blank should be collected per cooler and per trip for VOC samples only.
Sample	A representative portion of a sample matrix (e.g., water, air, sediment, tissue) collected for the purposes of identification or assessment of contamination often requiring the sample to be collected, preserved, transported, and analyzed by a laboratory.
Sample-Composite	A representative portion of a sample matrix that contains aliquots collected over time and space, combined into a single sample container, and analyzed by a lab as a single sample. Types of composites include flow proportional, time, vertical profile, and areal composites.

Lab QC Activity Types

WIN Short Name	WIN Description
Lab Replicate	A replicate aliquot of a single sample that is processed and analyzed under the same conditions as the initial aliquot. The analytical results from replicates are used to determine the precision of a system. A replicate may be a duplicate, triplicate, or other multiple.
Laboratory Control Sample	A sample matrix, known to be free of analytes of interest, spiked with known and verified concentrations of an analyte, and taken through all sample preparation and analytical steps of the procedure, treated identically to the associated samples. Could also be known as a laboratory fortified blank or spiked blank.
Laboratory Control Sample Replicate	A replicate Laboratory Control Sample prepared and analyzed within the same batch for the same target analyte(s) as the initial Laboratory Control Sample. A replicate may be a duplicate, triplicate, or other multiple.
Surrogate	A sample fortified with a compound having similar chemical characteristics to the analytes of interest, but which is not normally found in environmental samples. Known concentrations of these compounds are added to all samples in the set before sample preparation and subsequent analysis.
Matrix Spike	A sample fortified with a known and validated concentration of analyte(s) before sample preparation and subsequent analysis.
Matrix Spike Replicate	A replicate Matrix Spike prepared and analyzed within the same batch for the same target analyte(s) as the initial Matrix Spike. A replicate may be a duplicate, triplicate, or other multiple.
Method Blank	An aliquot of an appropriate analyte-free matrix that is processed is processed simultaneously with and under the same conditions as the associated sample through all steps of the analytical procedure. The method blank is analyzed and associated with a specific sample batch.

Typical Sampling Event

(Activity IDs at one site)

- Sample – direct grab (nutrients, color, alk, metals)
 - Field – depth 1 (pH, DO, conductivity, temp)
 - Field – depth 2 (pH, DO, conductivity, temp)
 - Field – depth 3 (pH, DO, conductivity, temp)
 - Field observation (Secchi)
 - Field blank
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- If equipment used at the site, then the sample would be intermediate grab, and blank would be equipment blank

Activity Documentation Items

note: only most common choices from
standard value list (SVL) shown

- Activity Type (SVL)
 - *Field*
 - *Field Blank*
 - *Equipment Blank*
 - *Field Replicate*
 - *Sample*
- Matrix (SVL)
 - *Aqueous-Surface*
 - *Aqueous-Ground*
 - *Sediment*
 - *QCMatrix-Water*
- Sample Collection Type (SVL)
 - *Direct Grab*
 - *Intermediate Grab*
 - *Composite (various)*
 - *Field testing-Discrete*
 - *Field observation*
- Activity time – required for all data
- Activity Depth
- Total Site Depth

Activity Documentation Items

- Sampling Agency Name (SVL)
- Sampler Name
- Sample Collection Equipment Name (SVL)
 - *Indicate intermediate device used to collect samples (e.g., Niskin bottle, dipper, pump/peristaltic)*
 - *If no intermediate device, choose “water bottle” or “field testing meter”*
- Activity Representative Indicator
 - *Representative/Not Representative*
- Field Blank Batch ID
- Equipment Blank Batch ID

Quality Assurance Data

- Field and lab QC data will be accepted in WIN
- Clearly differentiate Field Blanks from Equipment Blanks
- Generate “Blank Batch ID”
 - *Samples associated with a given field blank or equipment blank will share a blank batch ID with each other and with that associated blank*
 - *These batches will be assigned by the sampling agency, approach may vary by project*

Updates to DMT

- Some data elements will be generated from LIMS, including details taken from submittal forms
- Data loaders will have to verify information in the Data Merge Tool (DMT)
- Activity ID will be generated from Field ID, so it will be important to be consistent in Field ID assignments
- Training will be available when the DMT updates are complete

WIN Resources

- http://publicfiles.dep.state.fl.us/DEAR/storet/WIN_Communication - ftp site contains most up to date information
- Frequently Asked Questions (FAQs)
- Minimum Data Quality Standards (MDQS)