CEDEN User Group Meeting Notes

May 21, 2020

During the May CEDEN User Group meeting, the group discussed the CEDEN 2.0 Proof of Concept project. This project is supported by EarthSoft and it is to customize their EQuIS product for chemistry data. This potential database upgrade provides an opportunity to make some changes that make the data submittal process more straightforward for some users, make the data more complete, and make the quality better know. Additionally, the structure of EQuIS is different and that will also require some changes to how CEDEN data are formatted for submittal.

Below are the main points covered, with notes on items that have been changed or clarified since the meeting. On-going notes and format changes are being tracked at https://docs.google.com/spreadsheets/d/1XjApnJa__wx4b6pZFRT2ghv-SHV_4RTsAekGnFEjx94/edit#gid=2039123325. The final format and valid value options are still a "work in progress."

Sample Type

- Other instances of EQuIS uses a sample type of "normal" for samples that are not quality assurance samples, for example. Since this discussion, Water Board staff suggest to not use "normal" but instead use "grab" and "composite" along with FieldRep1, FieldRep2, FieldBlindDup, etc. in the Sample Type field. Sample method would still contain values from the current collection method valid value list.
- Consolidate other values
- Focusing on those applicable to Chemistry

Questions/Comment:

- How can the type of integration be conveyed (length of time, depth integrated, sediment grab collection of multiple scoops integrated into one sample).
    - *Sample method valid value list will still include options that indicate integration type*
- How is the field collection information be tied to the chemistry results?
    - *To link the field data and lab data together, can create a unique sample code as follows: StationCode_CollectionDateTime_SampleType_Depth*
- Can field information collect depth interval?
    - *Field collection module will be developed separately but the intent is for it to include the information that the sample collector knows and can record. This includes some fields that are currently in the chemistry template but can also be expanded to include additional information, such as depth interval.*
- How do we migrate current data?

    - *While developing this new chemistry module, migration is being considered but whether the data is actually migrated or just brought together in outputs is a separate discussion.*
- Tori suggested using the current CEDEN depth as an end depth for sediment. Adam thought it would be a start depth for water but end depth for sediment. Look for more input on how data are currently being reported.
- What sample method is used for QA samples, for example a LabBlank?
    - *"Not Applicable"*

Replicate

Use Sample type code instead.

Questions/Comments

- How to tie it back to parent sample?
    - Potentially use the metadata for SampleTypes (needs_parent_sample to identify which is the parent and a combination of fields to identify which couple samples together.
- What about triplicates, quadruplicates
    - *Multiple types can be in the valid value list with sequential numbers, such as FieldRep1, FieldRep2, etc.*
- Need business rule to specify whether to store all data or just one reportable results (dilutions)

LabReplicate

- Use Test_type field
- Values include
    - Initial
    - Dilution1
    - Dilution2
    - Reanalysis
    - Reextract
    - Replicate1
    - Replicate2
    - Replicate3
    - Etc.
- Codes representing combinations, such as replicate and dilution, can also be created.