

Database Management Work Group call summary
June 13, 2019

Attendees:

Mike Hermanson – Spokane County
Dave Dilks – LimnoTech
Brandee Era-Miller, Jim Ross – Ecology
Joel Breems – Avista
Mike Anderson – City of Coeur d’Alene
Jeff Donovan – City of Spokane

The agenda for the workgroup meeting included:

1. Setting up a database field to identify data quality
2. GIS mapping application
3. Data uploading
4. Data synthesis workshop follow up.

Discussion Summary:

1. Setting up a database field to identify data quality:

The SRRTTF requested that the Data Management Workgroup evaluate a way to document data quality within the SRRTTF database. The group discussed and concluded that the approach used by Ecology’s EIM database is adequate for this purpose. The approach is as follows:

Level 1: Data neither Verified nor Assessed for Usability

Level 2: Data Verified

Level 3: Data Verified and Assessed for Usability

Level 4: Data Verified and Assessed for Usability in a Formal Study Report

Level 5: Data Verified and Assessed for Usability in a Peer-Reviewed Study Report

Definitions:

Data Verified: Study quality control (QC) results have been examined for compliance with acceptance criteria specified in the QAPP, SAP or field/analytical method.

Data Assessed for Usability: Study data package has at a minimum been evaluated for precision, bias, representativeness, comparability, and completeness as specified in the QAPP or SAP.

Formal Study Report: Document describing Study objectives, procedures, results, conclusions and assessment of the quality of the data. Bibliographic citations should be provided.

Peer Reviewed Study Report: Report was checked or reviewed for accuracy and completeness by a supervisor or colleague with appropriate experience (does not require independent, outside scientific review, as for juried publications).

The County will request that CDM add a field to the database to record this data. Additionally, if available, QAPPs for data within the database will be made available along with the database.

2. GIS Mapping Application:

Spokane County reported that they will work with the County's IT staff to develop an ArcGIS online web mapping application that will provide sample locations along with selected summary data and sample location information. The County is still in the process of establishing a schedule for this project, but hope to be working on it throughout the summer with draft versions to show the workgroup in the next few months.

3. Data Uploading:

Spokane County reported that they are currently in the process of uploading the 2012 fish tissue data. The next data upload will be determined according to data needs for the next phase of the PMF project.

4. Data Synthesis Work Shop Follow Up:

The group discussed topics related to data management that were discussed at the Data Synthesis Workshop. The main request of the workgroup from the workshop was to evaluate ways to make it easier to understand the relationship of sample names to locations. It was noted that the EDD templates for the SRRTTF database do include some guidance on naming conventions that may aid in this process. The challenge is keeping the name short enough that it can be utilized in reports and maps while still providing enough descriptive information. The database does store location information, Lat/Lon, river mile, etc. which can be used in presenting the data. It was recognized that there is an inherent challenge in working with data sets for multiple matrices, collected by different organizations, in many locations, over a long time span. The web mapping application will hopefully aid in the process of relating sample names to locations.