

The background is a light blue gradient with several realistic water droplets of various sizes scattered across the surface. The droplets have highlights and shadows, giving them a three-dimensional appearance.

METHODS AND DATA COMPARABILITY BOARD

NWQMC

2/21/2018

CURRENT WORK EFFORTS

- BIOLOGICAL ASSESSMENT AND COMPARABILITY WORKGROUP
- SENSORS WORKGROUP
 - UNCERTAINTY
 - WEBINARS
- USGS CONTINUOUS MONITORING WORKSHOP REPORT – AWAITING APPROVAL

BIOLOGICAL ASSESSMENT AND COMPARABILITY INDY MEETING BRAINSTORMING

- INVENTORY OF METHODS, METRICS, INDICES CURRENTLY IN USE
- PROVIDE GUIDANCE ON APPROPRIATE USE OF METHODS/METRICS TO ANSWER QUESTIONS
- TERMINOLOGY, DEFINING TERMS, LEVEL OF EFFORT
- COMPARABILITY GUIDELINES – ID WHEN CAN USE DISPARATE DATASETS AND WHEN NOT
- DEVELOP GUIDELINES FOR HOW TO ENTER BIOLOGICAL DATA INTO PORTAL – WHAT DATA ELEMENTS OR METADATA ARE REQUIRED
- PROMOTE TAXONOMIC UNIFORMITY FOR VARIOUS KINDS OF BIOLOGICAL DATA – INCORPORATE INTO NEMI

BIOLOGICAL ASSESSMENT AND COMPARABILITY

- PROPOSED STEP 1: UPDATE NEMI WITH FIELDS PERTINENT TO BIOLOGICAL METHODS

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	Method ID	Method Source	Method Name	Analyte Name	Detection Level	Detection Level Type	Bias	Precision	Spiking Level
<input type="checkbox"/>	ASTM 10500.B	ASTM	Benthic invertebrate sample collection	Benthic macroinvertebrate community (X00020)	N/A		N/A	N/A	
<input type="checkbox"/>	ASTM 10500.C	ASTM	Benthic invertebrate sample processing and analysis	Benthic macroinvertebrate community (X00020)	N/A		N/A	N/A	
<input type="checkbox"/>	B-9135-00 (Qualitative)	USGS-NWQL	Benthic Macroinvertebrate Sample Processing: Qualitative Visual Sort Method	Benthic macroinvertebrate community (X00020)	N/A		N/A	N/A	
<input type="checkbox"/>	B-9135-00 (Quantitative)	USGS-NWQL	Benthic Macroinvertebrate Sample Processing: Quantitative Fixed-Count Method	Benthic macroinvertebrate community (X00020)	N/A		N/A	N/A	
<input type="checkbox"/>	B-9135-00 (Slide Preparation)	USGS-NWQL	Benthic Macroinvertebrate Slide Preparation	Benthic macroinvertebrate community (X00020)	N/A		N/A	N/A	
<input type="checkbox"/>	B-9135-00 (Taxonomic ID)	USGS-NWQL	Benthic Macroinvertebrate Sample Processing: Taxonomic Identification	Benthic macroinvertebrate community (X00020)	N/A		N/A	N/A	
<input type="checkbox"/>	CAB-EC-1-2001	EnvCanada-	Benthic Invertebrate sample collection; 3	Benthic macroinvertebrate	N/A	N/A	N/A	N/A	

BIOLOGICAL ASSESSMENT AND COMPARABILITY

- REVIEW OF PAST WORK:
 - COUNCIL (STRIBLING, MILLER, DIAMOND, OTHERS)
 - CARTER AND RESH (2001) – SURVEY OF INVERT METHODS
 - REGION 7 AND 5 METHODS DOCUMENTS
 - USGS INTERNAL SURVEY

	A	B	C	D	E	F	G	H
1	Category	Data element	Examples					
2	meta	Method Owner		Illinois ¹	Wisconsin ¹	Bioassessment Protocol (RBP) ²	Kansas ²	MO DEQ ²
3	meta	Project or Stream Type					Stream Probabalistic Monitoring Program	
4	meta	Contacts					Elizabeth Smith, elizabeth.smith@ks.gov	
5	meta	Assemblage	aquatic macroinvertebrates, fish, algae	inverts	inverts	inverts	inverts	inverts
6	meta	Waterbody type	Wadeable stream, nonwadeable stream					
7	general	Index period				Not specified	Apr 15-Sep 30	Mar-15-Apr 15 and Sep 15-Oct 15 (approx)
8	general	Sampling method based on another method?	EPA RPB, EPA NRSA, USGS NAWQA...			N/A	EPA RBP with modifications	Custom semi method
9	general	Number of people sampling					2 (each samples half of the reach)	
10	general	How many times sampled in a year?					Once	Twice: once in spring, once in fall
11	general	Replicates collected?		No	Varies			
12	general	Field or lab pick		Lab	Lab	Lab	Field	Lab

BIOASSESSMENT – CORE FIELDS (INVERTS)

- INDEX PERIOD
- FIELD OR LAB PICK
- MESH SIZE
- REACH LENGTH
- HABITAT(S) SAMPLED
- NO. INDIVIDUAL SUBSAMPLES COMPOSITED
- TOTAL SAMPLING AREA
- FIELD PRESERVATIVE (Y/N)
- TAXA INCLUDED
- LAB SUBSAMPLE
- LARGE/RARE PICK?

BIOLOGICAL ASSESSMENT AND COMPARABILITY

- NEXT STEPS
 - WORKGROUP MEMBERS ADD METHOD INFO FOR LOCAL METHODS
 - CONTINUE TO REFINE DATA ELEMENTS
 - GET OUTSIDE REVIEW – FROM WHO?
- PRODUCT: UPDATE METHODS IN NEMI



SENSORS WORKGROUP

- WEBINARS
 - UNCERTAINTY
 - REMOTE SENSING
- 

SENSORS WEBINARS

- BASIC STATS
- ANALYSIS OF LARGE DATASETS
- APPLICATIONS *
- REMOTE SENSING

SENSORS - UNCERTAINTY

- REALITY IS THERE ARE MANY POTENTIAL SOURCES OF ERROR
- NUMEROUS EFFORTS RELATED TO THIS TOPIC
 - NOAA-LED WORKGROUP (QARTOD) PRODUCING QA DOC – INCLUDES UNCERTAINTY – CASE STUDY
 - WORLD MET ORG
 - USGS EFFORT – FRAMED AROUND UNCERTAINTY BOUNDS ON DOC FLUX.
 - COUNCIL FACT SHEET & EXCEL WORKBOOK

SENSORS – UNCERTAINTY

- TOP 5 FACTORS THAT DRIVE UNCERTAINTY IN SENSORS
 - BREAK DOWN BY SENSOR TYPE
 - CONTACT SENSOR MANUFACTURERS
- PRODUCT: WHITE PAPER/FACT SHEET