

Assessment Methodologies and 106 Monitoring

Making the most of the data you
already have.



Background: EBCI Receives federally approved WQS in 2018.

This allows (and requires) stream classification.

Anti-Degradation Tiers

- Tier 1- impaired
- Tier 2- meeting
- Tier 2.5- TRW, excellent diversity
- Tier 3- ORRW, no degradation permitted

Use Designations

- Ceremonial
- Recreational
- CAH (class 1 and 2)
- PWS
- WAH

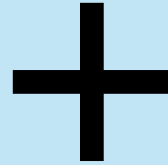


Building Blocks

The “Nails”- 106 data

106 Parameters

- E. coli
- nutrients
- turbidity
- pH
- DO
- temperature
- macroinvertebrates



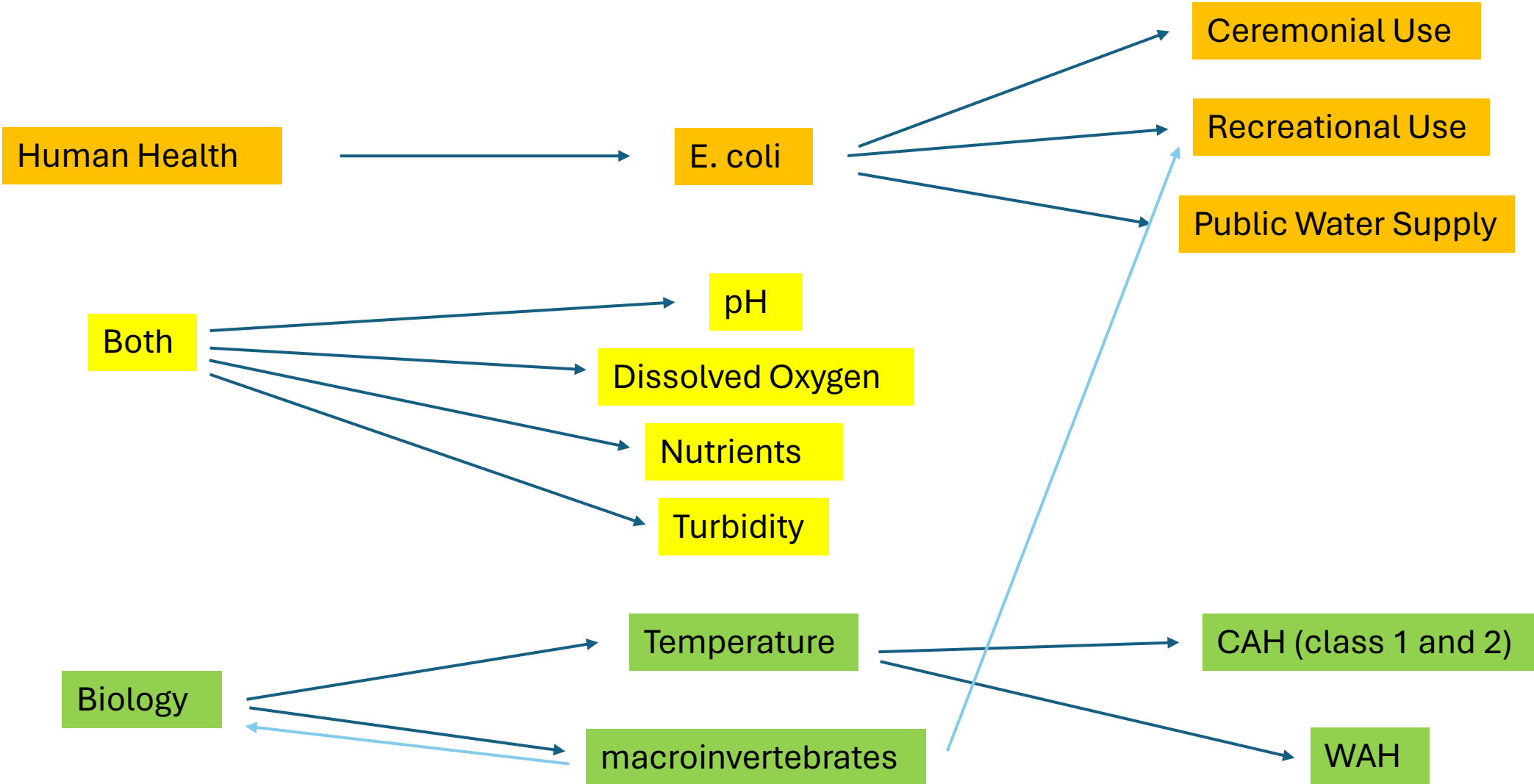
Building Blocks

Antidegradation Tiers
Use Designations



evaluation of “meeting” or “not meeting”

Breakdown of 106 Parameters



	A	B	C	D	E	F	G	H	I	J
1	Stream Classification									
2	For this section pick the most stringent designated use. Bioclassification score is based on EPT taxa richness.									
3	Anti-deg tier will be based on bioclassification score and ambient monitoring results. This sheet is not meant for field use.									
4	Stream Name:	Black Rock Creek	Date of Hab. Assess.:	8/21/2023	Designated Use/s:	Recreation Use	Cold Water Aquatic Habitat Class 1	Ceremonial Use		
5	Monitoring Location:	BLACROCKC1	Date of macro coll.:	5/2/2023	Meeting uses:	yes				
6	Sub-Watershed:	Soco Creek								
7										
8	Date:	8/21/2023	Habitat Score:	92	Bioclassification Score:	Optimal	Corrected EPT Richness:	57.5		
9	pH (SU):	7.22	EPT Taxa Richness:	46	Anti-Deg. Tier:	Tier 2	Corrected Bioclassification:	Optimal		
10	DO (mg/L):	8.42	% Clingers/Scrapers:		Stream Order (Stahler):	3				
11	Conductivity (µs/cm):	10	Biotic Index:	1.32	Drainage area (sq. m):	2.54				
12	Temperature (°C):	18	Taxonmist:	Penrose	*if drainage area size is between 1 and 3.5 square miles, multiply by a correction value of 1.25. If drainage area is less than 1 square mile multiply by a correction factor of 1.45. Correct for seasonality if collected between Oct. 1 and May 31.					
13	Weather:	sunny	Field Sampler:	RT						
14										
15	Monthly Ambient Monitoring									
16	This section is filled out using data provided by Heather G.									
17										
18	Date:					over ceremonial, recreational daily max limit				
19	Temperature (°C):					over ceremonial, recreational average limit				
20	pH (SU):					Over or below surface water criteria				
21	Dissolved Oxygen (mg/L):					Over PWS max limit				
22	Total Nitrogen (mg/L):					Over or below CAH limits				
23	Total Phosphorous (mg/L):					Over or below WAH limits				
24	E. coli (MPN/100mL):									
25	Turbidity (NTU):									
26										
27	Date:									
28	Temperature (°C):									
29	pH (SU):									
30	Dissolved Oxygen (mg/L):									
31	Total Nitrogen (mg/L):									
32	Total Phosphorous (mg/L):					E. coli average:				

Thank you for your time and attention!

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Other Considerations

- watershed drainage area
- stream order
- geology
- watershed land use

