Water Quality - the physical, chemical and biological characteristics of water in relationship to a set of standards.

- a relative comparison of some measurable property/characteristic of water to some ideal or desired value for a specific purpose and/or location
- Who determines ideals?

'Scientists (EPA)
'governments

Factors that influence water quality?

• Rocks - block erosion, increase erosion

Plants · Humans

Why is it important to study water quality?

- important for life (animals that use it)

How would you measure water quality?

temperature dissolved oxygen

flow of water density

nutrients

* Physica | + Chemica | parameters

* Biological (species abundance, diversity)

If you took the temperature of your visualized water sample would you get....

...a value (measurement) close to the true temperature of the creek?

body temp how you transport the sample where the sample is taken transport time

Sun
amount of water sampled

...a values (measurements) that would be in agreement with each other? // //

Standarized Technique
- hold sample by two singers
- take sample at surface, arm length
- 2 minutes
- fill bottle
- 30 sec with thermometer

Measurements
Accuracy
- close to the true value

Precision
- the degree that measurements
give the same result
- repeatable











