

WHAT IS/ARE?

- Dissolved Oxygen
- Biochemical Oxygen Demand 5 day
- pH
- Nutrients (N and P)
- Turbidity
- E. coli

WHAT ARE SOURCES OF:

- Nutrients?
- Turbid water?
- E. coli?

WHAT PROBLEMS CAN RESULT FROM:

- High BOD5?
- Excess nutrients?
- Excessive turbidity?

WHAT OTHER PARAMETERS ARE ASSOCIATED WITH OR AFFECTED BY:

- Dissolved Oxygen?
- pH?
- High nutrients (N & P)?
- High E. coli?

WHAT IS/ARE?

- **Dissolved Oxygen**
 - *Oxygen dissolved in the water.*
- **Biochemical Oxygen Demand 5-day**
 - *Amount of oxygen consumed by bacteria during breakdown of organic waste over 5 days.*
- **pH**
 - *Measure of acidic or basic the water is from 0 (very acidic) to 14 (very basic).*
- **Nutrients (N and P)**
 - *Elements essential to plant growth.*
- **Turbidity**
 - *Relative clarity of the water, high turbidity means cloudier water.*
- **E. coli**
 - *Particular species of bacteria found in the feces of warm-blooded animals.*

WHAT ARE SOURCES OF:

- **Nutrients?**
 - *Run-off and erosion, fertilizers, organic waste, and attached to soil particles.*
- **Turbid water?**
 - *Suspended soils in water from soil erosion and algae.*
- **E. coli?**
 - *Combined sewer overflows (CSO's), poorly maintained septic tanks, animal waste.*

WHAT PROBLEMS CAN RESULT FROM:

- **High BOD5?**
 - *Potential for oxygen depletion in the water resulting in fish kills.*
- **Excess nutrients?**
 - *Eutrophication, excess plant/algae growth and decay, increased BOD.*
- **Excessive turbidity?**
 - *Decreases photosynthesis and oxygen, increases temperature, smothers habitat and clogs gills.*

WHAT OTHER PARAMETERS ARE ASSOCIATED WITH OR AFFECTED BY:

- **Dissolved Oxygen**
 - *Temperature, warmer water holds less dissolved oxygen.*
- **pH**
 - *Changes with temperature, impacted by geology, rain, and point discharges.*
- **High nutrients (N & P)**
 - *Low dissolved oxygen.*
- **High E. coli**
 - *High nutrient levels.*