

JEOPARDY!

***With your hosts, the Fabulous BTW
Educators***

Parameters

Importance

Source

Units

Limits

Water Quality

Parameters

Importance

Source

Units

Limits

Water
Quality

\$100

\$100

\$100

\$100

\$100

\$100

\$200

\$200

\$200

\$200

\$200

\$200

\$300

\$300

\$300

\$300

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\$400

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\$400

\$400

\$400

\$400

\$500

\$500

\$500

\$500

\$500

\$500

**This parameter measures
total concentration of
coliform bacteria.**

\$100

**What is fecal
coliform?**

Board

\$200

**This parameter is a
measure of cloudiness in
water.**

\$200

What Is Turbidity?

Board

\$300

**This parameter is a
measure of Hydrogen Ions
(H^+).**

\$300

What is pH?

Board

\$400

We can measure the electrical conductivity of substances present in water to measure this parameter.

\$400

What Are Total Dissolved Solids (TDS)?

This parameter is a measure of how much oxygen microorganisms use in aerobic oxidation of organic matter.

\$500

What Is Biochemical Oxygen Demand (B.O.D.)?

**Changes in this parameter
can affect the solubility of
dissolved oxygen.**

\$100

**What Is Water
Temperature?**

Board

\$200

**This parameter is
necessary for cellular
respiration in fish
and
macroinvertebrates.**

\$200

**What is Dissolved
Oxygen (D.O.)?**

Board

\$300

This parameter is the limiting factor for algal growth.

\$300

What Is Phosphate (PO_4)?

Board

\$400

Raw sewage increases this parameter – a measurement taken after a 5-day incubation period.

\$400

What Is Biochemical Oxygen Demand (B.O.D.)?

\$500

**Plants and animals
need this nutrient to
build proteins and
nucleic acids.**

\$500

What is Nitrogen?

Board

\$100

**Riffles increase the
amount of this element in
water.**

\$100

**What Is Dissolved Oxygen
(D.O.)?**

Board

\$200

The volume of water that moves over a designated point over a fixed period of time.

\$200

What Is Discharge (stream flow rate)?

\$300

Erosion and excess algae growth increase the value of this parameter.

\$300

What Is Turbidity?

Board

\$400

**Mining drainage, acid rain,
and limestone rock can
affect this parameter.**

\$400

What is pH?

Board

**Daily
Double**

Algal blooms are usually the first sign of this – an accelerated natural cycle.

\$500

What Is Cultural Eutrophication?

\$100

- **Celsius.**

\$100

**What Is Water
Temperature?**

Board

\$200

Colonies/100mL.

\$200

What Is Fecal Coliform?

\$300

**Jackson Turbidity Units
(JTUs).**

\$300

What Is Turbidity?

Board

\$400

No unit, just a number.

\$400

What Is pH?

Board

\$500

% Saturation.

\$500

What Is Dissolved Oxygen?

**Optimal range for fresh
water organisms is 6.5 –
8.2.**

\$100

What Is pH?

Board

\$200

**$\Delta < 4$ or 5 degrees over time
or area.**

\$200

**What Is Change in Water
Temperature?**

Board

\$300

Less than 4.4 mg/L is an optimal range for this nutrient.

\$300

What Are Nitrates (NO_3)?

Board

\$400

**< 500 mg/L for Drinking
Water.**

\$400

What Are Total Dissolved Solids?

Board

**1.0 mg/L considered
excellent in natural bodies
of water.**

\$500

**What Are Phosphates
(PO_4)?**

Board

\$100

**This is the standard index
created by the National
Sanitation Foundation.**

\$100

**What Is the Water Quality
Index (WQI)?**

\$200

**Drains an area of
approximately 14,700
square miles with over 5
million residents.**

\$200

What Is the Potomac River Watershed?

Board

\$300

**This is the treatment center
in southeast DC that
processes waste.**

\$300

What Is Blue Plains?

\$400

**This President declared the
Potomac River “A National
Disgrace” in 1965.**

\$400

**Who Is Lyndon B.
Johnson?**

Board

\$500

This law was an attempt by the federal government to achieve “fishable and swimmable” waters for all Americans.

\$500

**What Is the Clean Water Act
(1972)?**

Board

Final Jeopardy!

Final JEOPARDY!

Who Did It?

The WQI (Water Quality Index) was created in 1970 by this non-profit organization headquartered in Ann Arbor, Michigan.

**What is the National
Sanitation Foundation?**

The image features the word "JEOPARDY!" in a bold, white, sans-serif font, centered horizontally. The text is set against a background of a grid of blue squares, each with a slight 3D effect and a dark blue shadow. The grid is composed of 6 columns and 6 rows of squares, with the text spanning across the middle rows.

JEOPARDY!