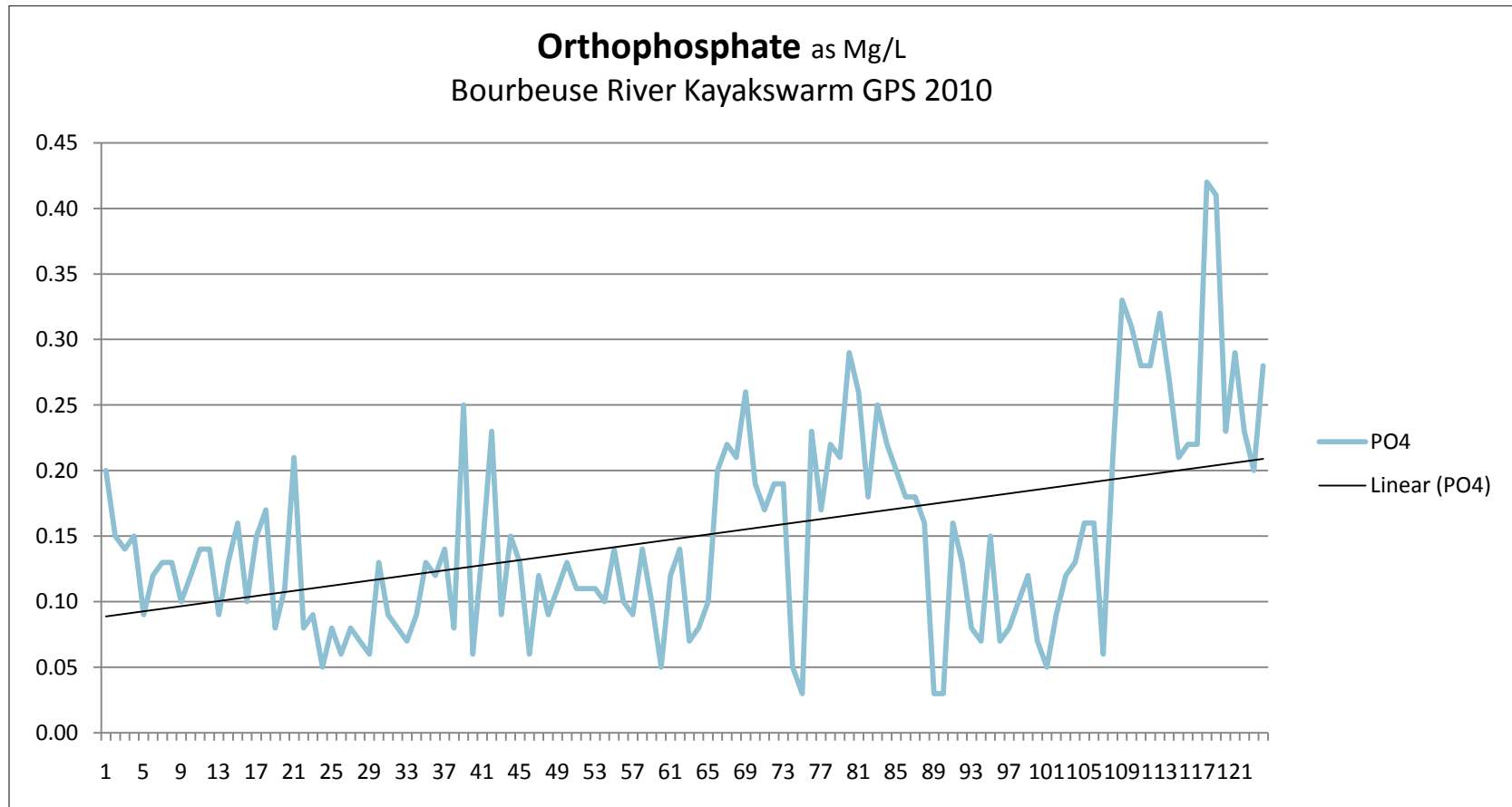


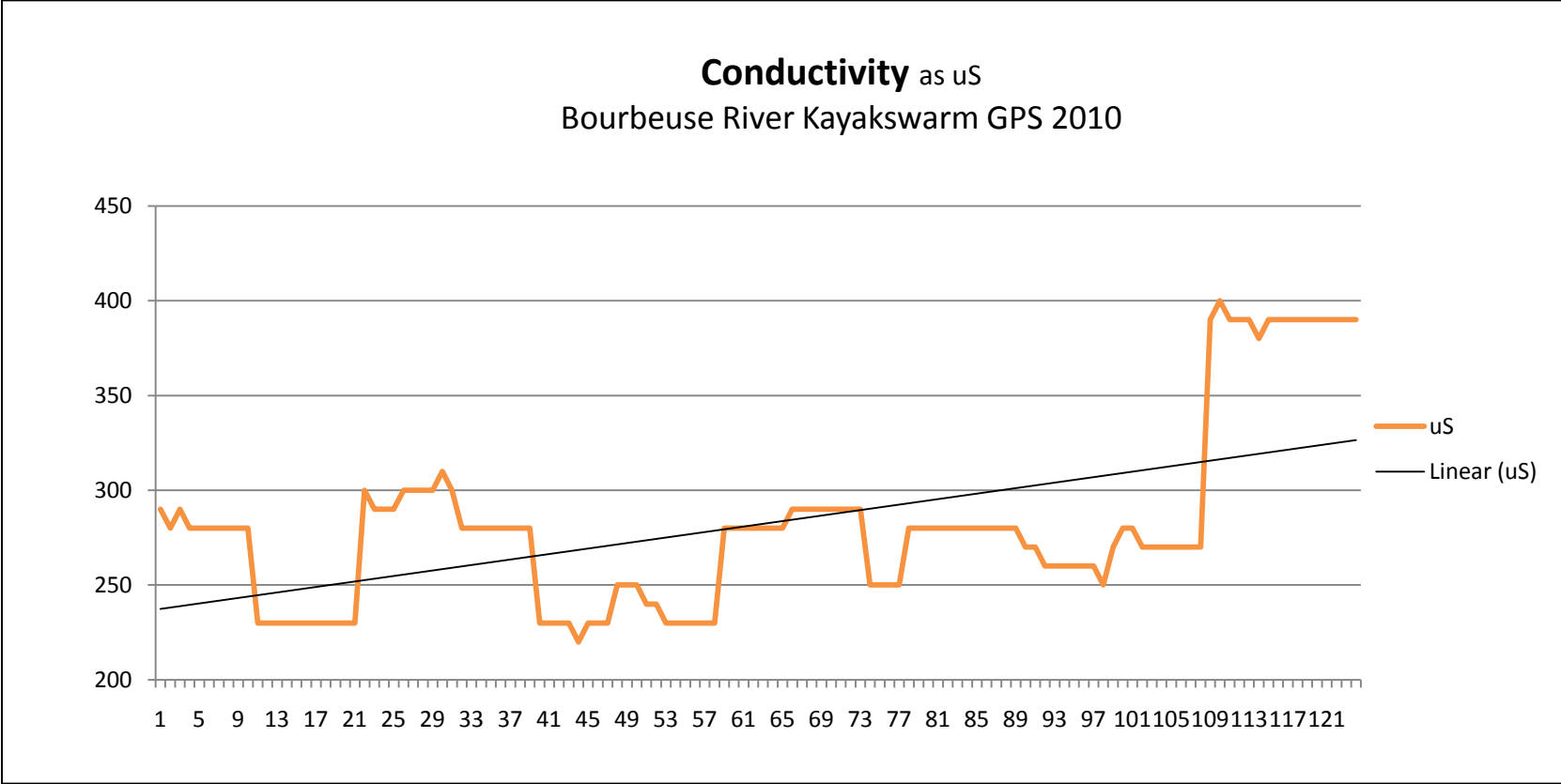
## KAYAKSWARM GPS 2010 – BOURBEUSE RIVER



Phosphorous and Orthophosphates (PO<sub>4</sub>) are typically found in very low concentrations in unpolluted waters. Excess phosphorus, often caused by human activities, can over stimulate algae production and reduce the aesthetic and recreational value of a water body. Sources may include partially treated and untreated sewage, runoff from agricultural sites, and over application of some lawn fertilizers.

The water quality data was collected for every mile of the river beginning at our GPS mile 0 at Mint Spring which is about 9 miles upstream of H-19 where it crosses the Bourbeuse. All data was collected in 2010 over 13 paddles beginning in April and ending in October. Note: 0 mile as used in "A Paddlers Guide to Missouri (MDC) is about 8 miles downstream of our 0 mile point.

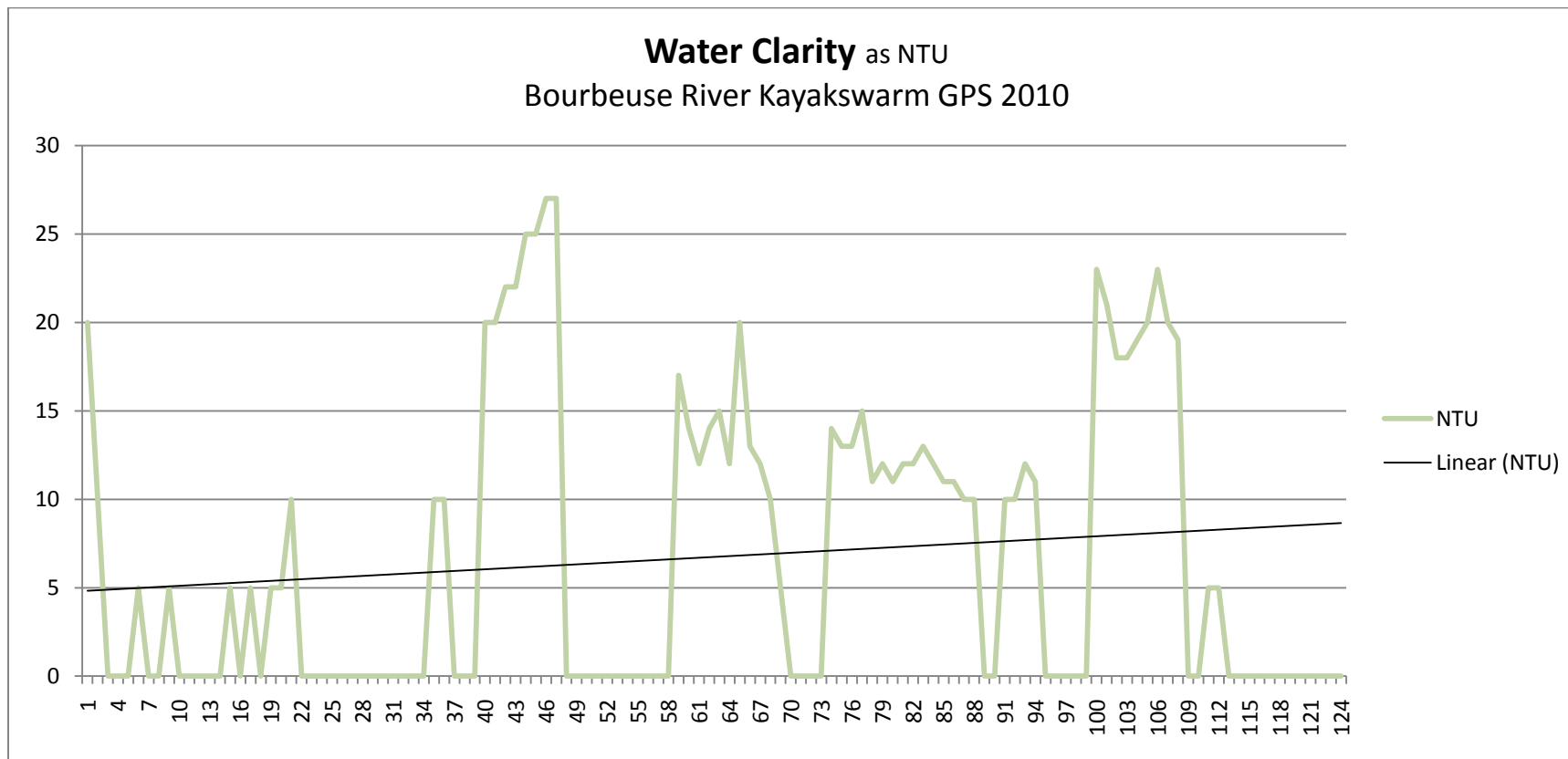
# KAYAKSWARM GPS 2010 – BOURBEUSE RIVER



**Conductivity:** Conductivity is determined by the total concentration of the ionized substances dissolved in the water. The concentration of these dissolved substances is measured by the water sample’s ability to carry an electrical current. A significant increase, or high levels, in conductivity may indicate a recent increase in land development, or agricultural or industrial activity.

The water quality data was collected for every mile of the river beginning at our GPS mile 0 at Mint Spring which is about 9 miles upstream of H-19 where it crosses the Bourbeuse. All data was collected in 2010 over 13 paddles beginning in April and ending in October. Note: 0 mile as used in “A Paddlers Guide to Missouri (MDC) is about 8 miles downstream of our 0 mile point.

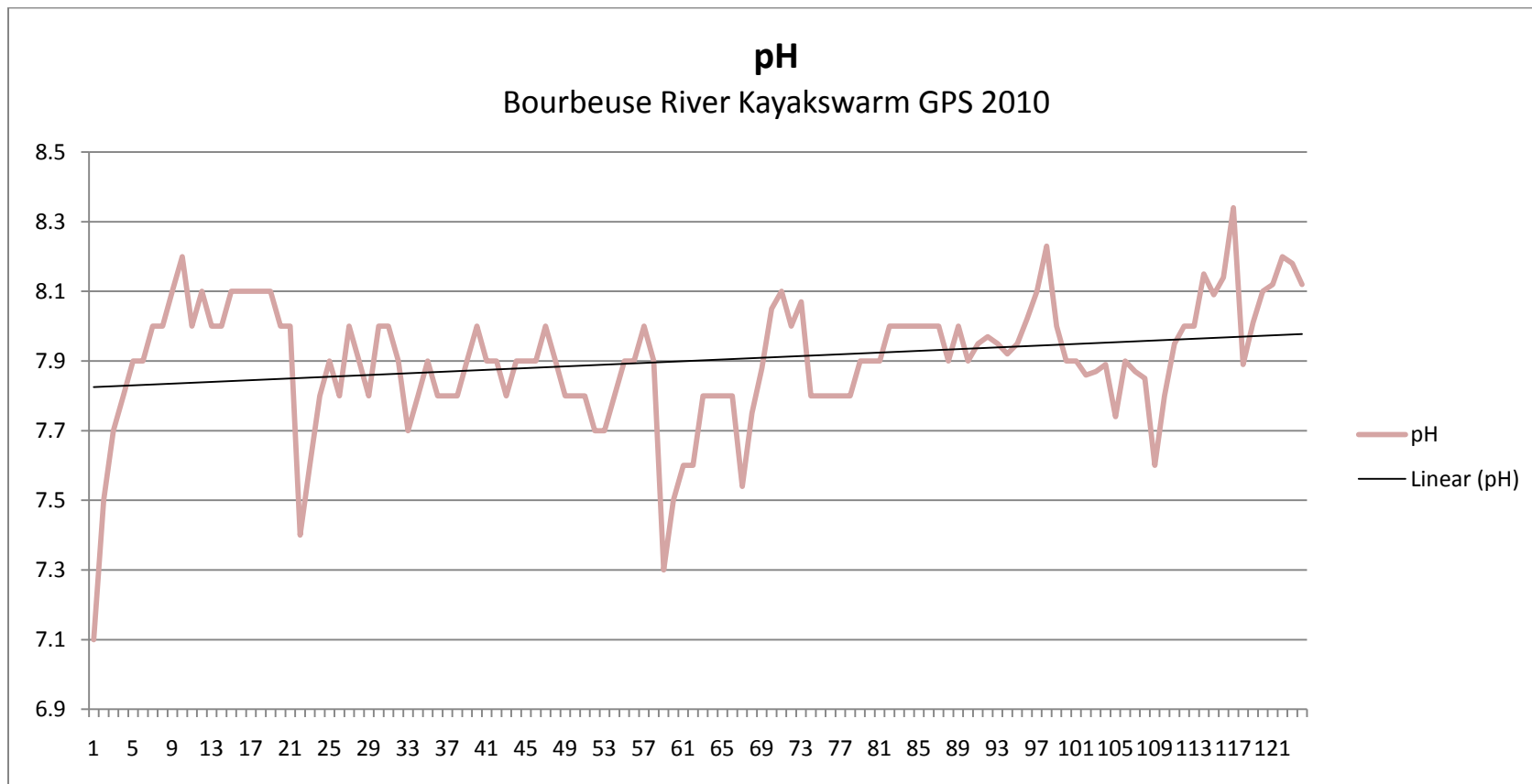
## KAYAKSWARM GPS 2010 – BOURBEUSE RIVER



**Turbidity:** Turbidity in natural waters is caused by the presence of suspended solids such as silt, clay, fine organic and inorganic matter, plankton and other microscopic organisms. The turbidity test - NTU (Nephelometric Turbidity Units) - measures an optical property of the water sample and is used as an index of water clarity. Water clarity may be affected by runoff or internal plankton growth.

The water quality data was collected for every mile of the river beginning at our GPS mile 0 at Mint Spring which is about 9 miles upstream of H-19 where it crosses the Bourbeuse. All data was collected in 2010 over 13 paddles beginning in April and ending in October. Note: 0 mile as used in "A Paddlers Guide to Missouri (MDC) is about 8 miles downstream of our 0 mile point.

## KAYAKSWARM GPS 2010 – BOURBEUSE RIVER



**pHs:** The pH value of a water body expresses its tendency to donate or accept hydrogen ions on a scale of 0 (very acidic) to 14 (very basic). Natural waters range from pH6 to pH9 and are often slightly basic. Any major pH deviations for a given water body may indicate the introduction acidic or basic inputs that may not be natural in origin.

The water quality data was collected for every mile of the river beginning at our GPS mile 0 at Mint Spring which is about 9 miles upstream of H-19 where it crosses the Bourbeuse. All data was collected in 2010 over 13 paddles beginning in April and ending in October. Note: 0 mile as used in "A Paddlers Guide to Missouri (MDC) is about 8 miles downstream of our 0 mile point.