



Ohio River Weekly Water Quality Report

Week of: **7/1/2022**

| | PITTSBURGH | WHEELING | HUNTINGTON | CINCINNATI | LOUISVILLE | EVANSVILLE |
|---------------------|------------|-----------|------------|------------|------------|------------|
| Temperature | 74.0 °F | 78.0 °F | NS | 77.5 °F | 80.1 °F | 80.6 °F |
| Turbidity (ntu) | 9.6 | 5.0 | NS | 13.7 | 7.0 | 12.0 |
| River Stage (ft) | 16.6 feet | 16.1 feet | 25.3 feet | 26.7 feet | 12.6 feet | 14.2 feet |
| River Flow (KCFS) | 5.1 | 11.5 | 36.3 | 29.9 | 28.1 | 48.3 |
| River Velocity(mph) | 0.2 mph | 0.4 mph | 0.7 mph | 0.7 mph | 0.3 mph | 0.8 mph |

2022 Contact Recreation Season Started 04/05/22. Samples collected 06/28/22.

| E. coli RM and Conc. | River Mile | Conc. (CFU/100mL) | River Mile | Conc. (CFU/100mL) | River Mile | Conc. (CFU/100mL) | River Mile | Conc. (CFU/100mL) | River Mile | Conc. (CFU/100mL) | River Mile | Conc. (CFU/100mL) |
|------------------------|------------|-------------------|------------|-------------------|------------|-------------------|------------|-------------------|---|-------------------|------------|-------------------|
| E. coli RM and Conc. | 1.4 | 99 | 86.8 | 51 | 305.1 | 148 | 462.6 | 79 | 594.6 | 295 | 791.5 | 9 |
| E. coli RM and Conc. | 4.3 | 62 | 92.8 | 72 | 314.8 | 435 | 470.0 | 20 | 619.3 | 262 | 793.7 | 10 |
| NS=No Sample collected | | | | | | | 477.5 | 3 | Contact Recreation water quality exceedences are posted in RED. | | | |

Ohio River Water Quality Reports are available at the following site:

<https://www.orsanco.org/data/weekly-ohio-river-water-quality-report/>

Water Temperature – The Ohio River is well-mixed, surface to bottom; there is little to no thermal stratification. Therefore, the temperature reported represents the water temperature at the surface as well as the bottom.

Turbidity – The measure of light scattering particles in the water that make the water look murky or muddy; the lower the turbidity, the clearer the water. The turbidity of the Ohio River can range from as low as single digits, to 1200 NTUs (nephelometric turbidity units) as seen during flood conditions.

Stage - The measurement of the vertical elevation of the surface of the river.

<http://water.weather.gov/ahps2/glance.php?wfo=iln&gage=ccno1&riverid=204624&view=1,1,1,1,1>

Velocity – How fast the water is moving. Velocities on the Ohio River can range from 0.1 mph under low flow to 5 mph at flood stage.

<http://tgftp.nws.noaa.gov/data/raw/fg/fgus51.ktir.vrf.tir.txt>

Flow- How much water is moving . The volume of water moving in cubic feet per second.

Bacteria - Bacteria concentrations in the Ohio River (and tributaries) can change rapidly following rain events. Rain can wash land-based bacteria from the watershed into the river directly or via tributaries. Bacteria can also enter the system following rain events from combined sewer overflows. Full body contact with the river water, i.e., swimming, is not recommended when E. coli concentrations exceed 240 CFU/100mL.