



Ohio River Weekly Water Quality Report

Week of: **5/24/2024**

	PITTSBURGH	WHEELING	HUNTINGTON	CINCINNATI	LOUISVILLE	EVANSVILLE
Temperature	70.2 °F	70.0 °F	71.6 °F	70.7 °F	72.3 °F	75.2 °F
Turbidity (ntu)	7.4	6.0	14.0	15.0	54.0	28.7
pH	7.6	7.4	7.7	7.7	7.9	7.6
River Stage (ft)	16.5 feet	16.0 feet	26.1 feet	27.5 feet	13.2 feet	19.2 feet
River Flow (KCFS)	10.6	24.3	52.8	72.5	90.5	124.8
River Velocity(mph)	0.5 mph	1.0 mph	1.0 mph	1.5 mph	1.0 mph	1.7 mph

Samples were collected and processed on May 14th or 15th this week.

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	206	86.8	10	305.1	41	462.6	388	594.6	75	791.5	NS
E. coli RM and Conc.	4.3	148	92.8	226	314.8	7701	470.0	860	619.3	52	793.7	NS
NS=No Sample collected							477.5	150	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=1,1,1,1,1,1>

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.rvf.tir.txt>

Flow- How much water is moving . The volume of water moving in KCFS. Based on model-simulated projections at 7am EST. Forecasts include expected precipitation through the first 48 hours.

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.

HAB Harmful Algal Bloom - Cyanobacteria or green algae that may produce toxins and can be detrimental to mammals