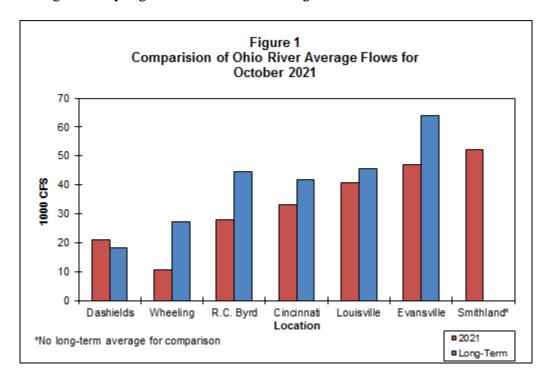
Monthly Quality Update October 2021



OHIO RIVER VALLEY WATER SANITATION COMMISSION

Flows

Average flows at seven Ohio River locations are displayed below. At each location the October 2021 average flow (red bar) is contrasted with the long-term average monthly flow (blue bar). Flows were significantly higher at all locations during the month of October.



Bacteria

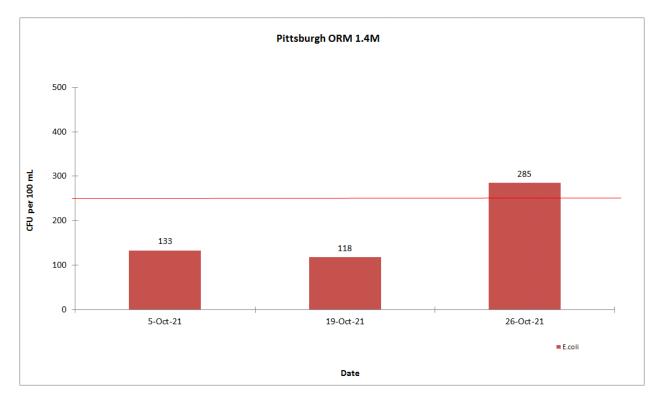
The bacteria monitoring results from five of the six Ohio River locations in October are in the attached graphs. ORSANCO's water quality criteria for the protection of human health during the contact recreation season are:

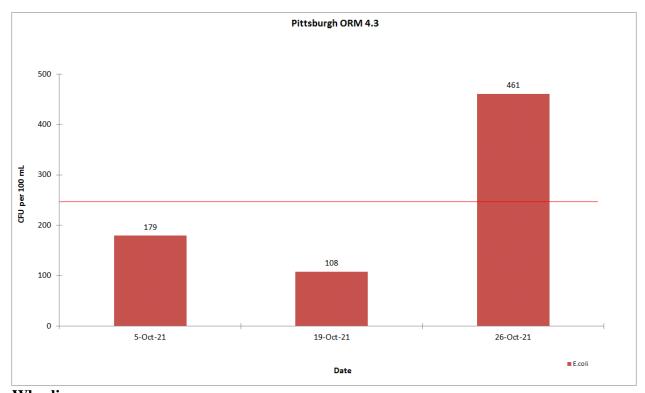
- E. coli count is not to exceed 240 CFU/100mL in more than 25 percent of samples. (E.coli is shown with a red line on the graph.)
- E. coli shall not exceed 130 CFU/100mL as a 90-day geometric mean, based on not less than five samples per month.

ORSANCO's water quality criteria for the protection of public water supply year round are:

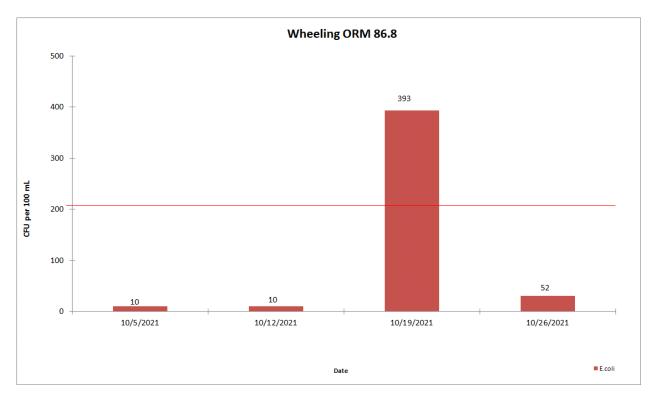
• Fecal Coliform shall not exceed 2,000/100mL as a monthly geometric mean based on not less than five samples per month.

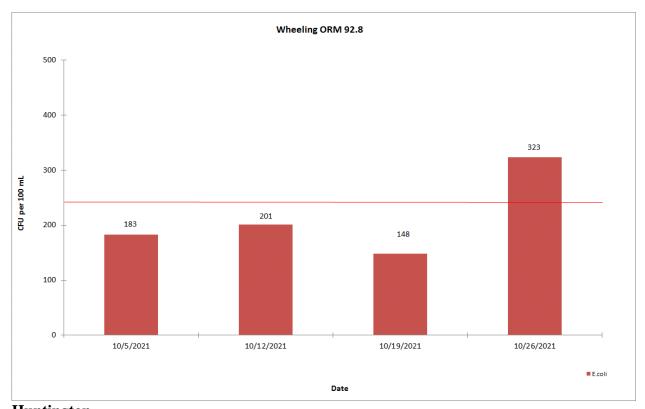
Pittsburgh In Pittsburgh, ORM 1.4 and 4.3 both had one individual exceedance for *E.coli*.



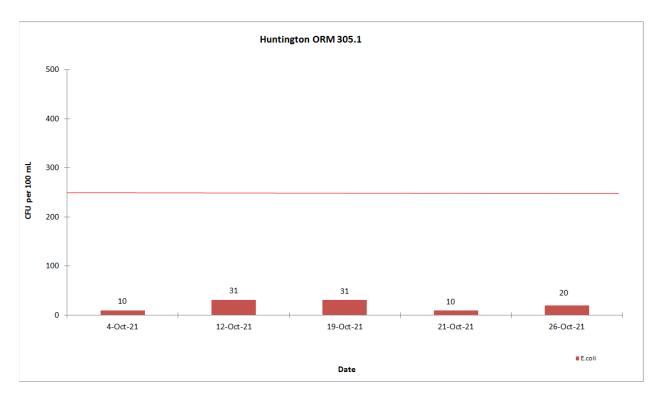


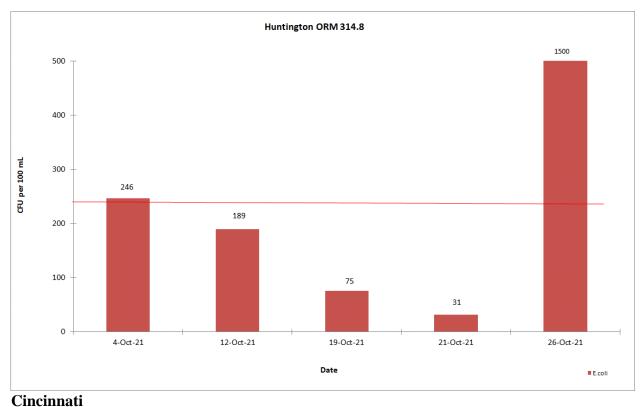
Wheeling
In Wheeling, ORM 86.8 and ORM 92.8 both had one individual exceedance for *E.coli*.



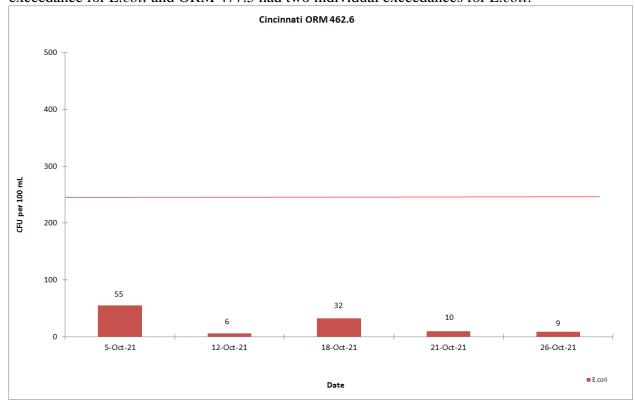


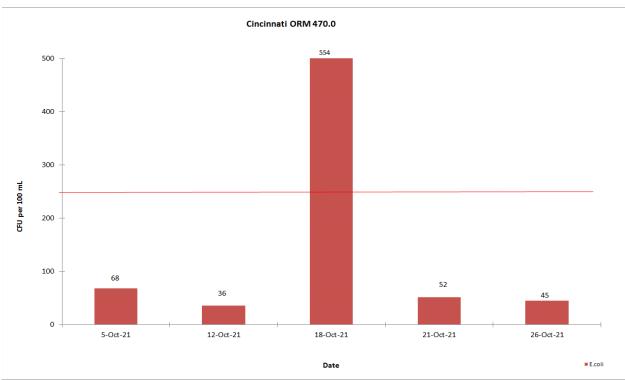
HuntingtonIn Huntington, ORM 305.1 did not exceed the *E.coli* criteria. ORM 314.8 had two individual exceedances for *E.coli*.

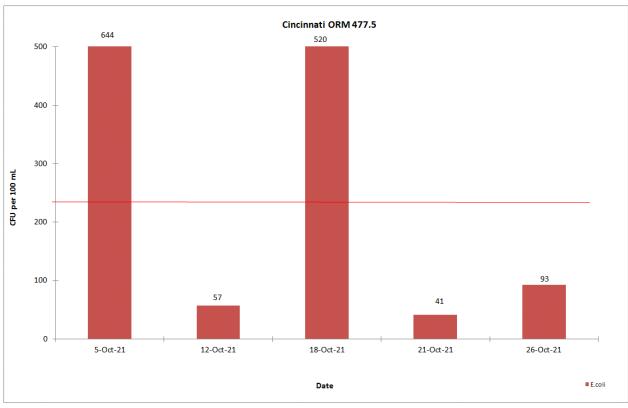




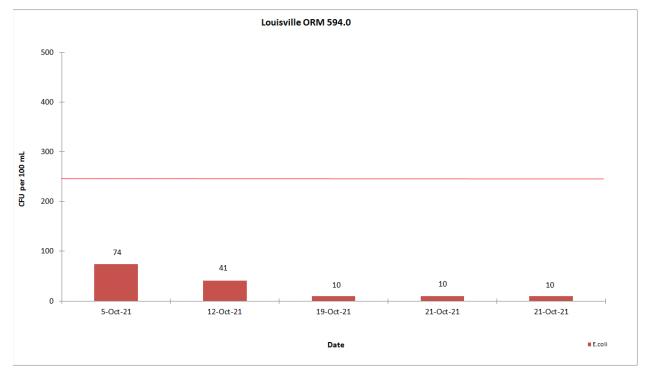
In Cincinnati, ORM 462.6 did not exceed the *E.coli* criteria. ORM 470.0 had one individual exceedance for *E.coli* and ORM 477.5 had two individual exceedances for *E.coli*.

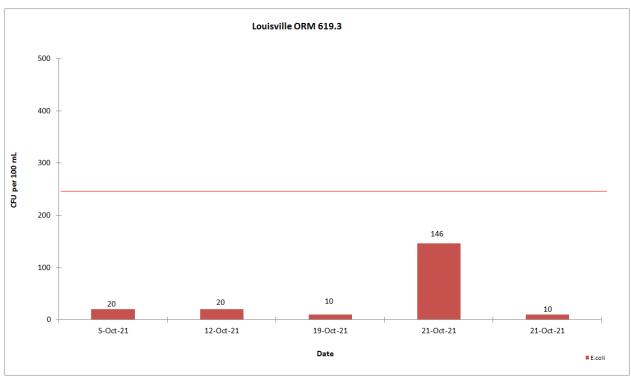




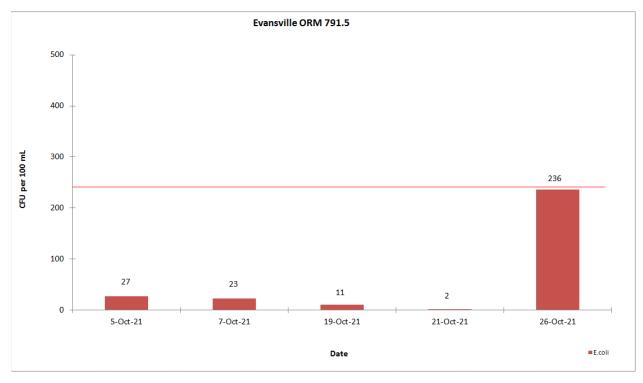


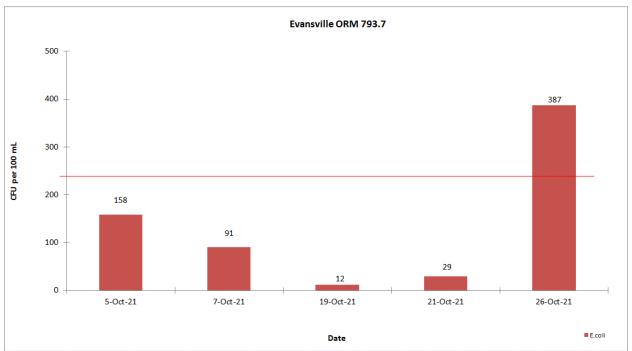
Louisville In Louisville, ORM 594.0 and 619.3 did not exceed the *E.coli* criteria.





Evansville In Evansville, ORM 791.5 did not exceed the *E.coli* criteria. ORM 793.7 had one individual exceedance for *E.coli*.





Dissolved Oxygen and Temperature

A summary of the dissolved oxygen and temperature readings collected in October 2021 are displayed in the attached tables. During the months of May through October, ORSANCO interrogates eleven stations for dissolved oxygen (D.O.) and temperature data once per day, Monday through Friday, for the previous 24-hour period. This data is compiled in-house to produce a report showing the minimum, maximum and average of the acquired D.O. and temperature readings. This year Olmstead was added and the results are instantaneous data. ORSANCO's water quality criteria for the protection of warm water aquatic life habitat are:

- The minimum D.O. concentration shall not be less than 4.0 mg/L at any time.
- Average D.O. concentration shall be at least 5.0 mg/L for each calendar day.
- During the April 15 June 15 spawning season, a minimum D.O. concentration of 5.0 mg/L shall be maintained at all times.
- The monthly average of the daily maximum for October 1-31 is:
 - o 74.1 °F at MP 0 to MP 341
 - o 76.7 °F at MP 341.1 to MP 606.8
 - o 75.5 °F at MP 606.9 to MP 981

There were no dissolved oxygen or temperature violations in the month of October. Please click on the link below to be directed to the DO/Temperature tables for October 2021: http://www.orsanco.org/dissolved-oxygen-and-temperature

Atrazine

Evansville drinking water utility samples the Ohio River at their intake and analyzes for atrazine by immunoassay technique. Results for October 2021 are presented below. Evansville had no criteria violations of the Maximum Contaminant Level (MCL) of 3.0 ug/L set by the Safe Drinking Water Act for finished drinking water.

Ohio River Atrazine Concentrations October 2021

