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# Friends of the Shenandoah River's 2019 Summer Quantitative *E. coli* Test Results at public recreational use sites on the Main Stem, South Fork and North Fork of the Shenandoah River and the Opequon Creek

These results provide a snapshot of the *E. coli* bacteria concentrations at the designated sites on the date, time, and under the conditions that the water samples were collected. Data points in RED exceeded the Virginia water quality standard maximum threshold of 235 CFU of E. coli per 100 mL in freshwater.

| SITE ID | SITE DESCRIPTION | 5/6 | 5/15 | 5/20 | 5/29 | 6/5 | 6/12 | 6/20 | 6/27 | 6/28 | 7/2 | 7/5 | 7/9 | 7/17 | 7/24 | 7/31 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FC08 | Main-stem Shenandoah River at Castleman's Ferry public boat ramp, Route 7 bridge | 1732.9 | 216.2 | 34.1 | 166.4 | 65.0 | 178.5 | 90.8 | 90.9 | 235.9 | 172.3 | 1119.9 | 172.3 | 41.0 | 37.9 | 16.1 |
| FC05 | Main-stem Shenandoah River at Lockes Landing public boat landing | 1299.7 | 290.9 | 72.8 | 172.2 | 65.7 | 101.4 | 38.8 | 59.4 | 195.6 | 32.7 | 517.2 | 98.7 | 37.3 | 65.7 | 32.7 |
| FC01 | Main-stem Shenandoah River at Berry's public boat ramp, Route 50 bridge | 920.8 | 325.5 | 38.4 | 57.6 | 51.2 | 101.9 | 69.7 | 77.1 | 60.2 | 35.0 | 770.1 | 39.9 | 18.7 | 79.8 | 49.6 |
| FW36 | Manassas Run upstream of confluence with main-stem Shenandoah River, just upstream of public boat landing | 1203.3 | 235.9 | 218.7 | 191.8 | 201.4 | 579.4 | 275.5 | 307.6 | 410.6 | 285.1 | >2419.6 | 517.2 | 344.8 | 476.4 | >2419.6 |
| FW35 | Main-stem Shenandoah River at Morgan's Ford low H2O bridge public boat landing below confluence with Manassas Run | 1732.9 | 222.4 | 70.8 | 59.8 | 30.9 | 116.2 | 178.5 | 103.9 | 137.6 | 121.1 | >2419.6 | 156.5 | 146.7 | 201.4 | >2419.6 |
| FW35MID | Main-stem Shenandoah River at Morgan's Ford low H2O bridge mid width of river | 1119.9 | 410.6 |  | 35.5 | 113.0 | 61.7 | 57.3 | 38.4 | 40.4 | 24.3 | 579.4 | 35.5 | 18.3 | 69.7 | 159.7 |
| FW14 | SF Shenandoah River at Front Royal public boat landing off Luray Ave. | 165.8 | 290.9 | 31.3 | 30.5 | 71.2 | 125.0 | 151.5 | 42.8 | 980.4 | 26.6 | 435.2 | 45.7 | 8.5 | 72.3 | 150 |
| FWAGSP | SF Shenandoah River @ Raymond R. "Andy" Guest Jr., Shenandoah River State Park | 770.1 | 980.4 | 21.1 | 18.7 | 14.5 | 42.0 | 14.6 | 29.5 |  | 11.0 | 13.4 | 33.6 | 13.4 | 38.8 | 115.3 |
| FWIH | SF Shenandoah River at Indian Hollow public boat launch off Indian Hollow Road | 816.4 | 1203.3 | 23.3 | 24.1 | 12.0 | 88.0 | 26.2 | 29.9 |  | 71.7 | 34.1 | 22.6 | 27.5 | 27.5 | 56.3 |
| FP03 | SF Shenandoah River at White House public boat landing | 248.1 | 1299.7 | 46.5 | 16.0 | 28.8 | 83.6 | 35.0 | 42.6 |  | 24.3 | 71.7 | 46.4 | 160.7 | 13.5 | 30.1 |
| FP02 | SF Shenandoah River at Newport public boat ramp downstream of Riverside Campground & Kite's Store | 209.8 | 920.8 | 44.1 | 42.6 | 36.4 | 193.5 | 37.3 | 63.1 |  | 20.1 |  | 116.2 | 40.4 | 14.2 | 20.3 |
| FSMB | NF Shenandoah River at Meems Bottom | >2419.6 | 176.4 | 115.3 | 90.8 | 88.2 | 149.7 | 235.9 | 125.9 |  | 67.7 | 770.1 | 122.3 | 387.3 | 77.6 | 68.3 |
| FSDR | NF Shenandoah River at Deer Rapids public boat landing | >2419.6 | 331.6 | 35.9 | 26.9 | 95.9 | 46.2 | 42.6 | 72.7 | 53.7 | 31.3 | 20.1 | 14.6 | 23.1 | 42.6 | 27.2 |
| FSSP | NF Shenandoah River at Strasburg Park public boat landing | >4839.2 | 581.8 | 42.0 | 69.1 | 17.3 | 39.9 | 68.9 | 93.3 | 129.1 | 52.8 | 50.4 | 43.2 | 46.4 | 1299.7 | 48.7 |
| FCOC | Opequon Creek @ Neill Road ford | >2419.6 | 248.1 | 118.7 | 344.8 | 193.5 | 129.6 | 116.9 | 124.6 | 410.6 | 307.6 | 4839.2 | 197.4 | 238.2 | 976.8 | 290.9 |

STATE WATER CONTROL BOARD 9 VAC 25-260
Virginia Water Quality Standards.
Statutory Authority: § 62.1-44.15 3a of the Code of Virginia. WITH AMENDMENTS EFFECTIVE January 6, 2011

For beach advisories or closures, a single sample maximum of 235 E.coli CFU/100 ml in freshwater and a single sample maximum of 104 enterococci CFU/100 ml in saltwater and transition zones shall apply.

**Red** indicates that the Standard criteria, no more than 10% of the total samples in the assessment period shall exceed 235 E.coli CFU/100 ml, has been exceeded.
http://law.lis.virginia.gov/admincode/title9/agency25/chapter260/section170/

E. coli results reported as >2,419.6 MPN/100mL exceeded the method limit of 2,419.36 MPN/100mL