



Your Stream Health

Stream samples are collected from six public access areas weekly by the Christian County Health Department EPHS staff, between Memorial Day and Labor Day. This is a community service to our residents and visitors of Christian County. Sites selected are based on their accessibility where people might come in contact with the water.

Bacterial monitoring is a method to determine the potential health risk of water exposure. Bacteria are microscopic, single-celled organisms that can be found in virtually any environment. Bacterial indicators of pollution are the species found in the intestines of warm-blooded animals, including humans, where many pathogens originate. Indicator bacteria in a waterway come from many sources, including animal droppings, faulty or leaking septic or sewage systems, stormwater runoff, and disturbed sediments. The most common recreational water illnesses caused by swallowing water contaminated by E. coli, are Shigella, Giardia and Cryptosporidium.

Criteria: Environmental Protection Agency's (EPA) established water quality criteria for monitoring bacteria, which states that no single water sample should have an E. coli count that exceeds 235 CFUs (colony forming units) per 100 ml of water. If a sample result is over 200.5 CFU another sample is collected and if the second sample is over 235 CFU's and advisory is posted and will not be removed until two consecutive samples have results <200 CFU.

| Stream | Date | Weather Condition | Nitrate | pH | Air Temp | Water Temp | Dissolved Oxygen (D.O) | D.O % Saturation | Conductivity | Turbidity (Clarity) | Chlorides (Road Salt) | E. coli CFU MPN |
|---------------------|---------------|-------------------|----------|-----------|----------|------------|------------------------|------------------|--------------|---------------------|-----------------------|-----------------|
| Target | | | < 2 mg/l | 6.5 - 9.0 | | 0-34° C | 5-15 mg/l | > 80% - Healthy | No standards | | | < 235 CFU |
| Linden | | | | | | | | | | | | |
| 5/12/2015 | Clear | | 0.5 | 8.1 | 15.0 | 18.0 | 11.5 | 148.0 | 317.0 | <10 | <29 | 7.5 |
| 5/18/2015 | Cloudy | | 0.5 | 8.1 | 16.0 | 19.1 | 10.0 | 108.0 | 324.0 | <5 | 0.0 | 42.9 |
| 5/27/2015 | Clear | | 1.0 | 8.0 | 24.0 | 20.0 | 10.6 | 131.0 | 295.0 | <5 | <29 | 200.5 |
| 6/1/2015 | Partly Cloudy | | 1.5 | 7.8 | 16.0 | 15.0 | 9.0 | 99.0 | 281.0 | <5 | 0.0 | >200.5 |
| 6/3/2015 | Cloudy | | - | - | - | - | - | - | - | - | - | 261.3 |
| 6/8/2015 | Cloudy | | 1.0 | 8.0 | 27.0 | 22.0 | 8.0 | 92.0 | 307.0 | <10 | <29 | 56.0 |
| 6/10/2015 | Cloudy | | - | - | - | - | - | - | - | - | - | 15.0 |
| 6/16/2015 | Cloudy | | 1.0 | 7.9 | 25.0 | 22.5 | 7.0 | 82.0 | 263.0 | 22.0 | <29 | >200.5 |
| 6/17/2015 | Cloudy | | - | - | - | - | - | - | - | - | - | 435.2 |
| 6/22/2015 | Clear | | 1.0 | 7.8 | 25.5 | 20.0 | 6.0 | 66.0 | 281.0 | <10 | <29 | 104.3 |
| 6/25/2015 | - | | - | - | - | - | - | - | - | - | - | 28.8 |
| 6/29/2015 | Clear | | 0.5 | 8.2 | 28.0 | 25.0 | 9.0 | 121.0 | 303.0 | <5 | <29 | 11.1 |
| 7/6/2015 | Cloudy | | 2.0 | 7.9 | 28.0 | 23.0 | 9.0 | 105.0 | 265.0 | 10.0 | <29 | 125.9 |
| 7/13/2015 | Clear | | <0.25 | 7.8 | 35.0 | 21.0 | 8.0 | 90.0 | 264.0 | <10 | <29 | 110.6 |
| 7/21/2015 | Cloudy | | 1.0 | 7.7 | 28.0 | 25.0 | 8.0 | 97.0 | 324.0 | <10 | <29 | 25.0 |
| 7/27/2015 | Clear | | 0.3 | 7.6 | 33.0 | 28.0 | 8.0 | 102.0 | 291.0 | <10 | <29 | 28.1 |
| 8/3/2015 | Partly Cloudy | | <0.25 | 7.7 | 33 | 26 | 8 | 99 | 281 | <10 | <29 | 7.3 |
| 8/12/2015 | Clear | | 0.5 | 7.2 | 25.0 | 25.0 | 8.0 | 97.0 | 312.0 | 10.0 | 29.0 | 69.7 |
| 8/21/2015 | Partly Cloudy | | 0.5 | 7.7 | 32.0 | 26.5 | 7.0 | 83.0 | 318.0 | <10 | <29 | 13.7 |
| Bar K | | | | | | | | | | | | |
| 5/12/2015 | Clear | | <0.25 | 7.9 | 13.0 | 15.0 | 22.5 | 199.0 | 341.0 | 10.0 | 0.0 | 45.3 |
| 5/18/2015 | Rainy | | <0.25 | 8.0 | 14.0 | 16.0 | 9.0 | 91.0 | 383.0 | <10 | 0.0 | 53.1 |
| 5/26/2015 | Cloudy | | <0.25 | 7.9 | 16.0 | 17.0 | 8.0 | 83.0 | 395.0 | <5 | 0.0 | >200 |
| 6/1/2015 | Partly Cloudy | | <0.25 | 7.9 | 16.0 | 17.0 | 9.0 | 93.0 | 359.0 | <5 | <29 | 83.1 |
| 6/8/2015 | Cloudy | | 0.25 | 8.1 | 24.0 | 21.0 | 7.0 | 79.0 | 563.0 | <10 | <29 | 1.0 |
| 6/16/2015 | Partly Cloudy | | 0.25 | 7.8 | 24.0 | 22.0 | 7.8 | 80.0 | 372.0 | <5 | <29 | >200.5 |
| 6/17/2015 | Cloudy | | - | - | - | - | - | - | - | - | - | 178.9 |
| 6/22/2015 | Partly Cloudy | | <0.25 | 8.0 | 25.0 | 20.0 | 6.0 | 66.0 | 407.0 | <10 | <29 | 60.9 |
| 6/29/2015 | Clear | | <0.25 | 8.0 | 30.0 | 25.0 | 9.0 | 109.0 | 395.0 | <5 | <29 | 200.5 |
| 7/1/2015 | - | | - | - | - | - | - | - | - | - | - | 387.3 |
| 7/6/2015 | Cloudy | | <0.25 | 7.7 | 28.0 | 25.0 | 9.0 | 109.0 | 847.0 | <5 | <29 | 36.8 |
| 7/13/2015 | Clear | | <0.25 | 7.9 | 33.5 | 24.0 | 7.0 | 83.0 | 352.0 | <10 | <29 | 24.3 |
| 7/21/2015 | Cloudy | | <0.25 | 7.9 | 28.0 | 26.0 | 8.0 | 99.0 | 287.0 | <10 | <29 | 24.7 |
| 7/27/2015 | Clear | | 0.3 | 7.5 | 29.0 | 26.0 | 7.5 | 87.0 | 418.0 | <10 | <29 | 24.9 |
| 8/3/2015 | Partly Cloudy | | <0.25 | 7.5 | 34.0 | 29.0 | 7.0 | 91.0 | 417.0 | 10.0 | <29 | 7.5 |
| 8/12/2015 | Clear | | 0.3 | 8.0 | 22.0 | 23.0 | 6.0 | 70.0 | 404.0 | 10.0 | <29 | 9.9 |
| Delaware | | | | | | | | | | | | |
| Rain out | | | | | | | | | | | | |
| Delaware | | | | | | | | | | | | |
| 3/31/2015 | Partly Cloudy | | 3.0 | 8.0 | 14.0 | 11.0 | 19.0 | 172.0 | 333.0 | 10.0 | 29.0 | 53.1 |
| 5/4/2015 | Partly Cloudy | | 6.0 | 8.4 | 26.0 | 20.0 | 16.0 | 159.0 | 473.0 | <10 | 29.0 | 32.4 |
| 5/13/2015 | Cloudy | | 4.0 | 8.0 | 21.5 | 18.0 | 16.8 | 159.0 | 480.0 | <10 | 29.0 | 15.0 |
| 5/18/2015 | Clear | | 4.0 | 8.0 | 23.0 | 20.0 | 9.0 | 99.0 | 482.0 | 13.0 | 29.0 | 45.3 |
| 5/27/2015 | Partly Cloudy | | 4.0 | 7.9 | 21.5 | 19.5 | 11.0 | 121.0 | 469.0 | <10 | 29.0 | >200.5 |
| 6/1/2015 | Partly Cloudy | | 4.0 | 7.8 | 22.5 | 17.0 | 8.0 | 83.0 | 352.0 | 11.0 | <29 | 520.0 |
| 6/3/2015 | Partly Cloudy | | - | - | - | - | - | - | - | - | - | 104.8 |
| 6/8/2015 | Cloudy | | 3.0 | 7.9 | 23.0 | 22.0 | 6.0 | 80.0 | 451.0 | <5 | 29.0 | 73.8 |
| 6/16/2015 | Partly Cloudy | | 4.0 | 7.9 | 25.0 | 23.0 | 6.0 | 70.0 | 455.0 | <10 | <29 | 129.8 |
| 6/22/2015 | Clear | | 3.0 | 7.6 | 30.0 | 23.0 | 10.0 | 117.0 | 358.0 | 20.0 | <29 | 214.2 |
| 6/25/2015 | - | | - | - | - | - | - | - | - | - | - | 143.0 |
| 6/29/2015 | Partly Cloudy | | 3.0 | 7.9 | 25.0 | 23.0 | 9.0 | 105.0 | 427.0 | <5 | 29.0 | 46.4 |
| 7/6/2015 | Cloudy | | 2.0 | 7.7 | 25.0 | 21.0 | 8.0 | 90.0 | 333.0 | 16.0 | <29 | 203.9 |
| 7/13/2015 | Clear | | 2.0 | 7.6 | 28.0 | 23.0 | 9.0 | 105.0 | 379.0 | 20.0 | <29 | 344.8 |
| 7/16/2015 | - | | - | - | - | - | - | - | - | - | - | 140.8 |
| 7/20/2015 | Cloudy | | 6.0 | 7.5 | 32.0 | 27.0 | 8.0 | 101.0 | 409.0 | <10 | <29 | 37.9 |
| 7/27/2015 | Clear | | 4.0 | 7.9 | 29.0 | 24.0 | 10.0 | 119.0 | 420.0 | <10 | <29 | 69.5 |
| 8/3/2015 | Clear | | 2.0 | 8.1 | 32.0 | 25.0 | 9.0 | 109.0 | 460.0 | <10 | <29 | 20.7 |
| 8/11/2015 | Clear | | 2.0 | 7.8 | 26.0 | 24.0 | 8.0 | 99.0 | 397.0 | 15.0 | 29.0 | 435.2 |
| 8/21/2015 | Partly Cloudy | | 4.0 | 7.7 | 32.0 | 26.5 | 9.0 | 113.0 | 476.0 | <10 | 29.0 | 13.7 |
| Shelvin Rock | | | | | | | | | | | | |
| 3/31/2015 | Cloudy | | 3.0 | 7.8 | 15.0 | 12.0 | 13.0 | 121.0 | 414.0 | 15.0 | 29.0 | 69.7 |
| 5/12/2015 | Clear | | 4.0 | 8.2 | 24.0 | 18.0 | 12.5 | 138.0 | 478.0 | <10 | 29.0 | 32.4 |
| 5/18/2015 | Partly Cloudy | | 4.0 | 8.0 | 17.5 | 17.5 | 12.8 | 132.0 | 504.0 | <10 | 29.0 | 200.5 |
| 5/27/2015 | Partly Cloudy | | 4.0 | 7.9 | 21.5 | 19.0 | 13.0 | 140.0 | 481.0 | <10 | 29.0 | 165.2 |
| 6/1/2015 | Partly Cloudy | | 2.0 | 7.7 | 23.5 | 17.0 | 9.0 | 93.0 | 370.0 | 11.5 | <29 | >200.5 |
| 6/3/2015 | Partly Cloudy | | - | - | - | - | - | - | - | - | - | 144.5 |
| 6/8/2015 | Cloudy | | 4.0 | 7.9 | 24.0 | 22.0 | 7.0 | 92.0 | 431.0 | <5 | 29.0 | 73.8 |
| 6/16/2015 | Partly Cloudy | | 4.0 | 8.0 | 25.0 | 23.0 | 8.0 | 70.0 | 451.0 | <10 | <29 | 34.4 |
| 6/22/2015 | Clear | | 3.0 | 7.4 | 28.0 | 23.0 | 9.0 | 105.0 | 554.0 | 28.0 | 29.0 | 238.2 |
| 6/25/2015 | - | | - | - | - | - | - | - | - | - | - | 128.1 |
| 6/29/2015 | Partly Cloudy | | 3.0 | 7.9 | 25.0 | 23.0 | 9.0 | 105.0 | 452.0 | <5 | 29.0 | 43.5 |
| 7/6/2015 | Cloudy | | 1.0 | 7.9 | 24.0 | 20.0 | 8.0 | 99.0 | 326.0 | 17.0 | <29 | 387.3 |
| 7/13/2015 | Clear | | 3.0 | 7.7 | 30.0 | 23.0 | 9.0 | 105.0 | 385.0 | 10.0 | <29 | 133.4 |
| 7/20/2015 | Cloudy | | 6.0 | 8.0 | 30.0 | 25.0 | 7.0 | 85.0 | 444.0 | <10 | <29 | 29.9 |
| 7/27/2015 | Clear | | 1.0 | 8.0 | 31.0 | 26.0 | 8.0 | 99.0 | 410.0 | <10 | <29 | 60.5 |
| 8/3/2015 | Clear | | 3.0 | 8.0 | 33.0 | 24.0 | 5.0 | 60.0 | 473.0 | 10.0 | 29.0 | 20.7 |
| 8/11/2015 | Clear | | 4.0 | 7.8 | 26.0 | 24.0 | 7.0 | 83.0 | 293.0 | 10.0 | 29.0 | 307.6 |
| 8/17/2015 | Partly Cloudy | | 4.0 | 7.8 | 33.0 | 27.0 | 8.0 | 101.0 | 468.0 | <10 | 29.0 | 16.4 |
| Busiek | | | | | | | | | | | | |
| 3/30/2015 | Clear | | 0.5 | 9.6 | 15.0 | 9.0 | 18.5 | 160.0 | 176.0 | 10.0 | 0.0 | 6.3 |
| 5/4/2015 | Clear | | 0.3 | 7.6 | 25.0 | 13.0 | 11.2 | 105.0 | 345.0 | 10.0 | <29 | >200.5 |
| 5/11/2015 | Clear | | 0.3 | 7.7 | 15.0 | 21.0 | 10.0 | 126.0 | 236.0 | <10 | <29 | 178.5 |
| 5/28/2015 | Cloudy | | 0.3 | 7.8 | 20.0 | 18.0 | 9.0 | 95.0 | 377.0 | <5 | <29 | 20.7 |
| 6/1/2015 | Partly Cloudy | | 0.5 | 7.9 | 17.0 | 15.0 | 9.0 | 89.0 | 367.0 | <10 | <29 | 45.3 |
| 6/8/2015 | Partly Cloudy | | 0.3 | 7.7 | 26.0 | 17.0 | 7.0 | 73.0 | 342.0 | <10 | <29 | 20.3 |
| 6/16/2015 | Cloudy | | 0.3 | 7.6 | 24.0 | 22.0 | 7.0 | 80.0 | 326.0 | 10.0 | <29 | >200.5 |
| 6/17/2015 | Cloudy | | - | - | - | - | - | - | - | - | - | 41.4 |
| 6/22/2015 | Clear | | 0.5 | 7.7 | 30.0 | 24.5 | 9.0 | 109.0 | 342.0 | <10 | <29 | 54.6 |
| 6/25/2015 | Cloudy | | <0.25 | 7.7 | 27.0 | 20.0 | 6.0 | 77.0 | 337.0 | <10 | <29 | 11.0 |
| 7/6/2015 | Cloudy | | <0.25 | 7.7 | 27.0 | 20.0 | 7.7 | 90.0 | 324.0 | <10 | <29 | 96.0 |
| Park Closed | | | | | | | | | | | | |
| Park Closed | | | | | | | | | | | | |
| Park Closed | | | | | | | | | | | | |
| 8/5/2015 | Rainy | | 2.0 | 7.6 | 21.0 | 22.0 | 7.0 | 80.0 | 346.0 | 15.0 | <29 | >435 |
| 8/11/2015 | Partly Cloudy | | 0.5 | 22.0 | 22.0 | 24.0 | 6.0 | 71.0 | 356.0 | 10.0 | <29 | 57.3 |
| Jim Turner | | | | | | | | | | | | |
| Rain out | | | | | | | | | | | | |
| Jim Turner | | | | | | | | | | | | |
| 3/30/2015 | Clear | | 2.0 | 8.2 | 15.0 | 5.0 | 18.8 | 147.0 | 199.0 | 10.0 | 0.0 | 65.9 |
| 5/12/2015 | Clear | | 0.5 | 8.5 | 13.0 | 18.0 | 13.5 | 159.0 | 320.0 | <10 | <29 | 25.4 |
| 5/18/2015 | Clear | | 0.3 | 8.0 | 24.0 | 21.0 | 13.6 | 146.0 | 326.0 | <10 | <29 | 40.6 |
| 6/1/2015 | Cloudy | | 1.5 | 7.8 | 22.0 | 21.0 | 9.8 | 112.0 | 274.0 | 35.0 | <29 | >200.5 |
| 6/3/2015 | Partly Cloudy | | - | - | - | - | - | - | - | - | - | 83.1 |
| 6/8/2015 | Cloudy | | 0.5 | 8.0 | 23.0 | 22.5 | 8.0 | 126.0 | 349.0 | 15.0 | <29 | 165.2 |
| 6/16/2015 | Partly Cloudy | | 0.3 | 8.0 | 25.0 | 25.0 | 8.0 | 97.0 | 315.0 | 14.0 | <29 | 78.2 |
| 6/22/2015 | Clear | | 1.0 | 7.8 | 24.5 | 20.0 | 7.8 | 88.0 | 273.0 | 14.0 | <29 | 285.1 |
| 6/23/2015 | - | | - | - | - | - | - | - | - | - | - | 100.8 |
| 6/25/2015 | Partly Cloudy | | 0.5 | 7.8 | 27 | 25 | 10 | 121 | 333 | <10 | <29 | 33 |
| 7/6/2015 | Cloudy | | 0.5 | 7.9 | 29.0 | 23.0 | 9.0 | 117.0 | 308.0 | 15.0 | <29 | 183.9 |
| 7/13/2015 | Clear | | 1.0 | 7.8 | 34.0 | 23.0 | 8.0 | 93.0 | 260.0 | 10.0 | <29 | 79.4 |
| 7/20/2015 | Clear | | 1.5 | 7.8 | 26.0 | 24.5 | 8.0 | 95.0 | 311.0 | <10 | <29 | 41.4 |
| 7/27/2015 | Clear | | 0.3 | 7.9 | 31.0 | 24.0 | 7.0 | 83.0 | 314.0 | 1 | | |