

fall 2018

**Luray High School Water Testing**

Water Source: *Hawskbill Creek*

Location: *Ruffner Plaza, Luray VA*

*Freshman*  
Class *ES 2 ES Honors*  
School *Luray High*  
Date *11/2/2018*

Testing Equipment: *Low-Cost Water Monitoring Kit LaMotte (tab tests)*

I. Data

| Dissolved Oxygen (ppm) | Nitrate (ppm) | Phosphate (ppm) | pH         | Coliform (positive or negative) |
|------------------------|---------------|-----------------|------------|---------------------------------|
| <i>4 ppm</i>           | <i>5 ppm</i>  | <i>1 ppm</i>    | <i>7.5</i> | <i>+</i>                        |

*42% dissolved*

Water Temperature           *18*           DEG C

II. Rate The Following Parameter Concentrations Below.

**DO (Dissolved Oxygen)**

*250% =*  1 (poor)     2 (fair)     3 (good)     4 (excellent)

**Nitrate**  
 1 (poor)     2 (fair)     3 (good)     4 (excellent)

**Phosphorus**  
 1 (poor)     2 (fair)     3 (good)     4 (excellent)

**pH**  
 1 (poor)     2 (fair)     3 (good)     4 (excellent)

**Fecal Coliform (check which one applies)**

positive                       negative

**The Water Is Safe (check all that apply):**

for drinking  
 for swimming

*\* dissolved oxygen is low.*  
*\* Nitrates are slightly elevated (possibly from cow runoff)*  
*\* coliform was positive.*  
*we can plant more trees, bushes to prevent fertilizer and manure runoff.*

*Thanks!!*