

WV SAVE OUR STREAMS ADVANCED SURVEY SUMMARY

Stream Monitor(s) Warm Spring Runs Level 3 Date(s) 8/7/18
Warm Spring Run Watershed Association
 Directions Route 522 and Route 13 Start time 8:30
 County _____
 RR Miles _____ Station Double T11
 Latitude

| | | |
|----|----|----|
| 39 | 32 | 58 |
|----|----|----|

 Longitude

| | | |
|----|----|----|
| 78 | 14 | 32 |
|----|----|----|

 Watershed Database code _____

WATER CHEMISTRY

| | Result | Units | | Result | Units | | Result | Units |
|--------------------------|--------|-------|------------------------|--------|-------|------------------------|--------|-------|
| Temp. (°F or °C) | | | Alkalinity | 142 | | Fecal coliform/E-coli | | |
| pH | 7.5 | | Nitrate/Nitrite | 0 | | Iron | 0 | |
| Conductivity | | | Phosphates | | | Aluminum | | |
| Dissolved O ₂ | 122% | | Total Dissolved Solids | | | Manganese | | |
| Acidity | | | Turbidity | | | Other (describe below) | | |

Describe other conditions analyzed: _____

PHYSICAL CONDITIONS

Water clarity Clear Algae color Brown
 Water color None Algae abundance Scattered
 Water/Sediment odor None None Algae texture Even coating
 Streambed color Brown Surface foam Slight
 Comments _____

Riffle width _____ Run width 5.42 Pool width

| | |
|---|--|
| x | |
|---|--|

 Riffle depth _____ Run depth 0.30 Pool depth _____ Feet Meter
 Indicate units

Estimate

| |
|---|
| x |
|---|

 Count

| |
|---|
| x |
|---|

 Silt/clay Sand Fine gravel Coarse gravel Cobble Entire reach

| |
|---|
| x |
|---|

 Riffles only

| |
|--|
| |
|--|

 Boulder Bedrock Woody debris

| | | | | | | |
|--------------|--|----------|-------------------------|-----------|-----------|---------|
| Index | | <u>6</u> | <u>18</u> | <u>26</u> | <u>50</u> | |
| | | | Woody debris adjustment | | % Riffles | % Runs |
| | | | | | | % Pools |

HABITAT CONDITIONS

| | | | | | |
|--------------------|------------|---------------------|----------------|----------------------|---------------------|
| Attachment sites | <u>20</u> | Channel flow status | <u>20</u> | Embeddedness | <u>14</u> |
| Riffle frequency | <u>20</u> | Channel alterations | <u>20</u> | Bank veg. protection | <u>10</u> <u>10</u> |
| Velocity/depth | <u>18</u> | Sediment deposition | <u>19</u> | Bank stability | <u>8</u> <u>8</u> |
| Total Score | <u>173</u> | Channel shade | <u><40%</u> | Riparian buffer | <u>3</u> <u>3</u> |

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| | | | | | |
|---|----|---------------------------------------|----|-----------------------------------|---|
| Peltoperlidae (Roach-like stonefly) | | Pyrilidae (Aquatic moth) | | Notonectidae (Backswimmer) | |
| Pteronarcyidae (Giant stonefly) | | Calopterygidae (Broad-wing damselfly) | | Ceratopogonidae (Biting midge) | |
| Taeniopterygidae (Large winter stonefly) | | Gomphidae (Clubtail dragonfly) | | Chironomidae (Non-biting midge) | 3 |
| Brachycentridae (Humpless-case caddisfly) | | Dryopidae (Long-toed beetle) | | Culicidae (Mosquito) | |
| Glossosomatidae (Saddle-case caddisfly) | | Elmidae (Riffle beetle) | 52 | Muscidae (Muscid fly) | |
| Goeridae (Goerid-case caddisfly) | | Gyrinidae (Whirligig beetle) | | Psychodidae (Moth fly) | |
| Helicopsychidae (Snail-case caddisfly) | | Sialidae (Alderfly) | | Ptychopteridae (Phantom cranefly) | |
| Lepidostomatidae (Case-maker caddisfly) | | Entomobryidae (Springtail) | | Stratiomyidae (Soldier fly) | |
| Leptoceridae (Longhorn-case caddisfly) | | Dixidae (Dixid midge) | | Syrphidae (Rat-tailed maggot) | |
| Limnephilidae (Northern-case caddisfly) | | Empididae (Dance fly) | | Tabanidae (Horse fly) | |
| Philopotamidae (Finger-net caddisfly) | 15 | Simuliidae (Black fly) | | Asellidae (Aquatic sowbug) | |
| Rhyacophilidae (Free-living caddisfly) | | Tipulidae (Crane fly) | 2 | Ancylidae (Limpet snail) | |
| Uenoidae (Uenoid-case caddisfly) | | Hydrachnidae (Water mites) | | Physidae (Left-handed snail) | |
| Aeshnidae (Damner dragonfly) | | Cambaridae (Crayfish) | 18 | Planorbidae (Orb snail) | |
| Cordulegastridae (Spiketail dragonfly) | | Gammaridae (Sideswimmer) | | Hirudinea (Leech) | 1 |
| Psephenidae (Water penny) | 57 | Palaemonidae (Freshwater shrimp) | 1 | Nematoda (Round worm) | |
| Corydalidae (Hellgrammite/Fishfly) | | Bithyniidae (Bithynid snail) | | Nematomorpha (Horsehair worm) | |
| Athericidae (Watersnipe fly) | 1 | Pleuroceridae (Rock snail) | 3 | Oligochaeta (Aquatic worm) | 3 |
| Blephariceridae (Net-wing midge) | | Viviparidae (Viviparid snail) | | Turbellaria (Flatworms) | 1 |
| Hydrobiidae (Pebble snail) | | Corbiculidae (Asian clam) | | Tolerance unknown | |
| Unionidae (Mussel) | | Sphaeriidae (Pea clam) | | Hydrozoa (Freshwater jellyfish) | |
| | | | | Neuroptera (Spongilliflies) | |
| | | | | Spongilla (Freshwater sponge) | |