## **Field Results for Bushkill Stream Study – September 22, 2011 – CLASS COPY**

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| --- | --- | --- | --- | --- | --- | --- |
| Morning GroupLocation - Jacobsburg | Example | Group 1 | Group 2 | Group 3 | Group 4 | Group 5 |
| pH | 7.84 | 8.2 | 7.8 |  |  |  |
| Alkalinity (mg/L as CaCO3) | 160 | 80 |  |  |  |  |
| Turbidity (NTU) | 1.75 | 2.74 | 2.68 |  |  |  |
| DO (mg/L as O2) | 8.0 | 7.5\* | 6.5\* | \*Suspect readings |  |  |
| Conductivity (uS/cm) | 638 | 146.2 | 146.4 |  |  |  |
| Temperature (o C) | 13.5 | 16.8 | 17.0 |  |  |  |
| Macroinvertebrate | 20 Mayfly  8 Worms  2 Snails  1 Leech  ≈170 Caddis flies  87 Scuds  24 Caddis fly larvae | 23 caddisflies  8 mayflies  1 water penny 1 dragonfly  1 crawfish 2 aquatic worms 1 snail | 25 caddisflies  10 mayflies 5 aquatic worms 2 midges  1 sowbug  1 black-nosed dace (fish) | 1 caddisfly  6 mayflies 1 stonefly  1 water penny  1 dobsonfly 1 dragonfly 1 aquatic worms 1 riffle beetle | 17 caddisflies  2 mayflies 1 stonefly  1 water penny  1 dobsonfly 3 riffle beetles |  |

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| Afternoon GroupLocation – Penn Pump Park | Example | Group 1 | Group 2 | Group 3 | Group 4 | Group 5 |
| pH | 7.84 | 7.5 | 7.75 |  |  |  |
| Alkalinity (mg/L as CaCO3) | 160 | 140 |  |  |  |  |
| Turbidity (NTU) | 1.75 | 1.78 | 1.75 |  |  |  |
| DO (mg/L as O2) | 8.0 | 10.2 | 10.4 |  |  |  |
| Conductivity (uS/cm) | 638 | 425 | 419 |  |  |  |
| Temperature (o C) | 13.5 | 17.1 | 17.3 |  |  |  |
| Macroinvertebrate | 20 Mayfly  8 Worms  2 Snails  1 Leech  ≈170 Caddis flies  87 Scuds  24 Caddis fly larvae | 63 caddisflies  39 mayflies  1 stonefly  1 water penny 4 riffle beetles  1 scud 3 planarians | 8 caddisflies  28 mayflies  1 water penny 1 riffle beetle  4 scuds 1 aquatic worm | 45 caddisflies  47 mayflies  2 water penny 1 riffle beetle  1 planarian 1 aquatic worm | 38 caddisflies  26 mayflies  1 stonefly  3 water penny  3 scuds 1 aquatic worms |  |