

## Appendix H. Water Quality Database

P=primary sites    S=secondary sites    TSS=total suspended solids  
 Cl=chlorides    FC=fecal coliforms    TPN=total phosphorous and  
 nitrogen

| Subwatershed     | Site Type | Date        | Latitude (N) | Longitude (W) | Site Desc.              | Attaining WQ standards? | Probable impairment non WQ standard? | Parameter of impairment, if applicable | DO (mg/L) | pH  | Total Dissolved Solids (mg/L) |
|------------------|-----------|-------------|--------------|---------------|-------------------------|-------------------------|--------------------------------------|----------------------------------------|-----------|-----|-------------------------------|
| BC EAST          | P         | 8/1/03      | 40.152       | 80.371        | upper BC East, S Bridge | yes                     | no                                   |                                        | 7.2       | 7.7 | 280                           |
| BC SOUTH         | P         | 8/1/03      | 40.152       | 80.371        | upper BC South, 3009    | yes                     | no                                   |                                        |           | 7.6 | 280                           |
| BC MIDDLE        | P         | 8/1/03      | 40.161       | 80.374        | BC gazebo               | yes                     | yes                                  | conductivity                           | 7.29      | 8.1 | 370                           |
| BRUSH            | S         | 8/1/03      | 40.209       | 80.351        | Brush Run UNT Ag strea  | yes                     | no                                   |                                        | 8.6       | 8.4 | 280                           |
| BUCK             | P         | 8/1/03      | 40.191       | 80.449        | Mouth Buck Run          | yes                     | no                                   |                                        | 7.56      | 8.2 | 220                           |
| LOWER BUFFALO    | P         | 8/1/03      | 40.198       | 80.516        | BC at WV border         | yes                     | no                                   |                                        | 7.79      | 8.5 | 260                           |
| LOWER DUTCH FORK | P         | 8/1/03      | 40.184       | 80.486        | Mouth Dutch Fork        | yes                     | yes                                  | pH                                     | 8.75      | 8.6 | 230                           |
| UPPER DUTCH FORK | S         | 8/1/03      | 40.15        | 80.476        | Dutch Fork Exit Lake    | yes                     | no                                   |                                        |           | 8.3 | 230                           |
| BRUSH            | P         | Summer 2003 | 40.196       | 80.448        | Mouth Brush Run         | yes                     | no                                   |                                        | 7.07      | 8.3 | 280                           |
| DUNKLE           | P         | Summer 2003 | 40.201       | 80.44         | Mouth Dunkle Run        | yes                     | no                                   |                                        | 8.02      | 8.3 | 290                           |
| BC EAST          | P         | 10/22/03    | 40.152       | 80.371        | Upper BC East, S Bridge | yes                     | no                                   |                                        | 9.84      | 7.7 | 280                           |
| BC EAST          | TSS       | 10/22/03    | 40.152       | 80.371        | Upper BC East, S Bridge | yes                     | no                                   |                                        |           |     |                               |

| Subwatershed | Site Type | Date     | Latitude (N) | Longitude (W) | Site Desc.                 | Attaining WQ standards? | Probable impairment non WQ standard? | Parameter of impairment, if applicable | DO (mg/L) | pH   | Total Dissolved Solids (mg/L) |
|--------------|-----------|----------|--------------|---------------|----------------------------|-------------------------|--------------------------------------|----------------------------------------|-----------|------|-------------------------------|
| BC SOUTH     | P         | 10/22/03 | 40.152       | 80.371        | upper BC South, 3009       | yes                     | no                                   |                                        | 9.27      | 7.57 | 210                           |
| BC SOUTH     | TSS       | 10/22/03 | 40.152       | 80.371        | upper BC South, 3009       | yes                     | no                                   |                                        |           |      |                               |
| BC SOUTH     | CI        | 10/22/03 | 40.152       | 80.371        | upper BC South, 3009       | yes                     | no                                   |                                        |           |      |                               |
| BC MIDDLE    | S         | 10/22/03 | 40.161       | 80.379        | Wolf Mouth                 | yes                     | no                                   |                                        | 8.95      | 7.94 | 220                           |
| BC MIDDLE    | TSS       | 10/22/03 | 40.161       | 80.379        | Wolf Mouth                 | yes                     | no                                   |                                        |           |      |                               |
| BC MIDDLE    | CI        | 10/22/03 | 40.161       | 80.379        | Wolf Mouth                 | yes                     | no                                   |                                        |           |      |                               |
| BC MIDDLE    | S         | 10/22/03 | 40.18        | 40.416        | BC Covered Bridge          | yes                     | no                                   |                                        | 9.49      | 8.09 | 260                           |
| BC MIDDLE    | P         | 10/22/03 | 40.192       | 80.448        | Middle Buffalo Creek Mouth | yes                     | no                                   |                                        | 10.14     | 8.24 | 260                           |
| BC MIDDLE    | TSS       | 10/22/03 | 40.192       | 80.448        | Middle Buffalo Creek Mouth | yes                     | no                                   |                                        |           |      |                               |
| BRUSH        | S         | 10/22/03 | 40.207       | 80.36         | Maple Road                 | yes                     | yes                                  | conductivity                           | 9.65      | 7.9  | 290                           |
| BRUSH        | CI        | 10/22/03 | 40.207       | 80.36         | Maple Road                 | yes                     | no                                   |                                        |           |      |                               |
| BRUSH        | P         | 10/22/03 | 40.196       | 80.448        | Mouth Brush Run            | yes                     | no                                   |                                        | 10.33     | 8.28 | 270                           |
| BRUSH        | TSS       | 10/22/03 | 40.196       | 80.448        | Mouth Brush Run            | yes                     | no                                   |                                        |           |      |                               |
| BUCK         | P         | 10/22/03 | 40.191       | 80.449        | Mouth Buck Run             | yes                     | no                                   |                                        | 9.74      | 8.07 | 220                           |
| BUCK         | TSS       | 10/22/03 | 40.191       | 80.449        | Mouth Buck Run             | yes                     | no                                   |                                        |           |      |                               |
| BUCK         | CI        | 10/22/03 | 40.191       | 80.449        | Mouth Buck Run             | yes                     | no                                   |                                        |           |      |                               |
| DUNKLE       | P         | 10/22/03 | 40.201       | 80.44         | Mouth Dunkle Run           | yes                     | yes                                  | conductivity                           | 10.24     | 8.2  | 290                           |

| Subwatershed     | Site Type | Date     | Latitude (N) | Longitude (W) | Site Desc.                   | Attaining WQ standards? | Probable impairment non WQ standard? | Parameter of impairment, if applicable | DO (mg/L) | pH  | Total Dissolved Solids (mg/L) |
|------------------|-----------|----------|--------------|---------------|------------------------------|-------------------------|--------------------------------------|----------------------------------------|-----------|-----|-------------------------------|
| DUNKLE           | TSS       | 10/22/03 | 40.201       | 80.44         | Mouth Dunkle Run             | yes                     | no                                   |                                        |           |     |                               |
| SUGARCAMP        | S         | 10/22/03 | 40.208       | 80.506        | Sugarcamp at Frogtown        | yes                     | no                                   |                                        | 10.68     | 8.2 | 200                           |
| CASTLEMAN        | S         | 10/22/03 | 40.139       | 80.513        | Castleman Mouth              | yes                     | no                                   |                                        |           | 7.9 | 200                           |
| CASTLEMAN        | TSS       | 10/22/03 | 40.139       | 80.513        | Castleman Mouth              | yes                     | no                                   |                                        |           |     |                               |
| LOWER BUFFALO    | P         | 10/22/03 | 40.198       | 80.516        | BC at WV border              | yes                     | no                                   |                                        | 12.94     | 8.4 | 240                           |
| LOWER DUTCH      | P         | 10/22/03 | 40.184       | 80.486        | Mouth Dutch Fork             | yes                     | no                                   |                                        | 9.98      | 7.8 | 240                           |
| UPPER DUTCH FORK | P         | 10/22/03 | 40.123       | 80.473        | Dutch Fork Into Lake         | yes                     | no                                   |                                        | 9.92      | 7.9 | 240                           |
| UPPER DUTCH FORK | CI        | 10/22/03 | 40.123       | 80.473        | Dutch Fork Into Lake         | yes                     | no                                   |                                        |           |     |                               |
| UPPER DUTCH FORK | S         | 10/22/03 | 40.118       | 80.451        | Cunningham                   | yes                     | no                                   |                                        | 9.1       | 7.9 | 200                           |
| UPPER DUTCH FORK | CI        | 10/22/03 | 40.118       | 80.451        | Cunningham                   | yes                     | no                                   |                                        |           |     |                               |
| UPPER DUTCH FORK | CI        | 10/22/03 | 40.17        | 80.387        | Reed Run Mouth               | yes                     | no                                   |                                        |           |     |                               |
| UPPER DUTCH FORK | TSS       | 10/22/03 | 40.15        | 80.476        | Dutch Fork Exit Lake         | yes                     | no                                   |                                        |           |     |                               |
| UPPER DUTCH FORK | P         | 10/22/03 | 40.184       | 80.486        | Mouth Dutch Fork             | yes                     | no                                   |                                        | 9.98      | 7.8 | 240                           |
| BC EAST          | P         | 3/24/04  | 40.152       | 80.371        | Upper BC East, S Bridge      | yes                     | yes                                  | conductivity                           | 12.83     | 8.4 | 370                           |
| BC EAST          | S         | 3/24/04  | 40.129       | 80.323        | Mount Valey/Jolly School Rd. | yes                     | no                                   |                                        | n/a       | 8.2 | 260                           |
| BC SOUTH         | P         | 3/24/04  | 40.152       | 80.371        | upper BC South, 3009         | yes                     | no                                   |                                        | n/a       | 8.2 | 250                           |
| BC MIDDLE        | P         | 3/24/04  | 40.161       | 80.374        | BC gazebo                    | yes                     | no                                   |                                        | 13.03     | 8.4 | 290                           |

| Subwatershed     | Site Type | Date    | Latitude (N) | Longitude (W) | Site Desc.                  | Attaining WQ standards? | Probable impairment non WQ standard? | Parameter of impairment, if applicable | DO (mg/L) | pH  | Total Dissolved Solids (mg/L) |
|------------------|-----------|---------|--------------|---------------|-----------------------------|-------------------------|--------------------------------------|----------------------------------------|-----------|-----|-------------------------------|
| BC MIDDLE        | P         | 3/24/04 | 40.192       | 80.448        | Middle Buffalo Creek Mouth  | yes                     | no                                   |                                        | 13.26     | 8.4 | 270                           |
| BRUSH            | P         | 3/24/04 | 40.196       | 80.448        | Mouth Brush Run             | yes                     | yes                                  | nitrate                                | 12.56     | 8.5 | 300                           |
| BUCK             | P         | 3/24/04 | 40.191       | 80.449        | Mouth Buck Run              | yes                     | no                                   |                                        | 12.38     | 8.3 | 220                           |
| LOWER BUFFALO    | S         | 3/24/04 | 40.199       | 80.445        | Hickory Nut Road            | yes                     | yes                                  | nitrate                                | 11.83     | 8.4 | 290                           |
| LOWER BUFFALO    | S         | 3/24/04 | 40.19        | 80.476        | Narigan Run                 | no                      | yes                                  | pH                                     | 11.18     | 8.6 | 230                           |
| LOWER BUFFALO    | P         | 3/24/04 | 40.198       | 80.516        | BC at WV border             | yes                     | no                                   |                                        | n/a       | 8.4 | 270                           |
| LOWER BUFFALO    | S         | 3/24/04 | 40.187       | 80.501        | Dog Run                     | yes                     | no                                   |                                        | n/a       | 8.4 | 230                           |
| LOWER DUTCH      | P         | 3/24/04 | 40.184       | 80.486        | Mouth Dutch Fork            | yes                     | no                                   |                                        | n/a       | 8.4 | 290                           |
| UPPER DUTCH FORK | P         | 3/24/04 | 40.123       | 80.473        | Dutch Fork Into Lake        | yes                     | no                                   |                                        | n/a       | 8.3 | 240                           |
| UPPER DUTCH FORK | S         | 3/24/04 | 40.112       | 80.465        | Below Truck Stop            | no                      | yes                                  | pH                                     | n/a       | 8.8 | 340                           |
| UPPER DUTCH FORK | P         | 3/24/04 | 40.184       | 80.486        | Mouth Dutch Fork            | yes                     | no                                   |                                        | n/a       | 8.4 | 290                           |
| BC EAST          | S         | 9/16/04 | 40.128       | 80.336        | BC East, Upper Culvert      | no                      | yes                                  | iron                                   | 7.5       | 7.1 |                               |
| BC EAST          | S         | 9/16/04 | 40.141       | 80.352        | S Bridge, small Trib        | yes                     | yes                                  | conductivity                           | 7.95      | 7.8 |                               |
| BC EAST          | S         | 9/16/04 | 40.149       | 80.362        | Buffalo East, Overpass area | yes                     | no                                   |                                        | 8.98      | 8.1 |                               |
| BC MIDDLE        | P         | 9/16/04 | 40.161       | 80.374        | BC Gazebo                   | yes                     | no                                   |                                        | 8.01      | 8   |                               |
| BUCK             | S         | 9/16/04 | 40.15        | 80.429        | Buck Run Headwaters         | yes                     | no                                   |                                        | 7.3       | 7.9 |                               |
| SUGARCAMP        | S         | 9/16/04 | 40.217       | 80.484        | Sugarcamp upstream          | yes                     | no                                   |                                        | 8.67      | 8.2 |                               |

| Subwatershed     | Site Type | Date     | Latitude (N) | Longitude (W) | Site Desc.                      | Attaining WQ standards? | Probable impairment non WQ standard? | Parameter of impairment, if applicable | DO (mg/L) | pH  | Total Dissolved Solids (mg/L) |
|------------------|-----------|----------|--------------|---------------|---------------------------------|-------------------------|--------------------------------------|----------------------------------------|-----------|-----|-------------------------------|
| INDIANCAMP       | S         | 9/16/04  | 40.206       | 80.454        | Indiancamp Upper                | yes                     | no                                   |                                        | 7.68      | 8   |                               |
| LOWER BUFFALO    | S         | 9/16/04  | 40.206       | 80.454        | Lower BC Trib # 1               | yes                     | no                                   |                                        | 7.85      | 7.9 |                               |
| DUNKLE           | S         | 9/1/04   | 40.229       | 80.44         | Dunkle Run Trib                 | yes                     | no                                   |                                        |           |     |                               |
| BC EAST          | P         | 9/1/04   | 40.152       | 80.371        | S-Bridge BC                     | yes                     | yes                                  | nitrate                                |           |     |                               |
| BRUSH            | S         | 9/1/04   | 40.207       | 80.36         | Brush Run Trib Maple RD         | yes                     | yes                                  | conductivity                           |           |     |                               |
| BC EAST          | FC        | 8/18/04  | 40.152       | 80.371        | Buffalo Creek East, S Bridge    | no                      | yes                                  | fecals                                 |           |     |                               |
| BC MIDDLE        | FC        | 8/18/04  | 40.161       | 80.374        | Buffalo Creek, Taylorstown      | no                      | yes                                  | fecals                                 |           |     |                               |
| LOWER BUFFALO    | FC        | 8/18/04  | 40.19        | 80.497        | Buffalo Creek, rt. 3003 Bridge  | no                      | yes                                  | fecals                                 |           |     |                               |
| DUNKLE           | FC        | 8/18/04  | 40.201       | 80.44         | Dunkle Run, mouth               | no                      | yes                                  | fecals                                 |           |     |                               |
| BUCK             | FC        | 8/18/04  | 40.191       | 80.449        | Buck Run, near mouth            | no                      | yes                                  | fecals                                 |           |     |                               |
| BC SOUTH         | FC        | 8/18/04  | 40.205       | 78.485        | UNT, Newman Rd.                 | no                      | yes                                  | fecals                                 |           |     |                               |
| UPPER DUTCH FORK | FC        | 8/18/04  | 40.123       | 80.473        | Upper D. Fork, before reservoir | no                      | yes                                  | fecals                                 |           |     |                               |
| BRUSH            | FC        | 8/18/04  | 40.2         | 80.445        | UNT, Hickory Nut Rd.            | no                      | yes                                  | fecals                                 |           |     |                               |
| BC EAST          | FC        | 10/19/04 | 40.152       | 80.371        | Buffalo Creek East, S Bridge    |                         |                                      |                                        |           |     |                               |
| BC EAST          | FC        | 10/19/04 | 40.161       | 80.374        | Buffalo Creek, Taylorstown      | n/a                     | n/a                                  | fecals                                 |           |     |                               |
| BC MIDDLE        | FC        | 10/19/04 | 40.19        | 80.497        | Buffalo Creek, rt. 3003 Bridge  | n/a                     | n/a                                  | fecals                                 |           |     |                               |
| BUFFALO          | FC        | 10/19/04 | 40.201       | 80.44         | Dunkle Run, mouth               | n/a                     | n/a                                  | fecals                                 |           |     |                               |
| DUNKLE           | FC        | 10/19/04 | 40.191       | 80.449        | Buck Run, near mouth            | n/a                     | n/a                                  | fecals                                 |           |     |                               |

| Subwatershed     | Site Type | Date     | Latitude (N) | Longitude (W) | Site Desc.                           | Attaining WQ standards? | Probable impairment non WQ standard? | Parameter of impairment, if applicable | DO (mg/L) | pH | Total Dissolved Solids (mg/L) |
|------------------|-----------|----------|--------------|---------------|--------------------------------------|-------------------------|--------------------------------------|----------------------------------------|-----------|----|-------------------------------|
| BUCK             | FC        | 10/19/04 | 40.205       | 78.485        | UNT, Newman Rd.                      | n/a                     | n/a                                  | fecals                                 |           |    |                               |
| BC SOUTH         | FC        | 10/19/04 | 40.123       | 80.473        | Upper D. Fork, before reservoir      | n/a                     | n/a                                  | fecals                                 |           |    |                               |
| UPPER DUTCH FORK | FC        | 10/19/04 | 40.137       | 80.374        | Upper Buffalo Creek, softball fields | n/a                     | n/a                                  | fecals                                 |           |    |                               |
| BC EAST          | TPN       | 5/1/04   | 40.152       | 80.371        | Buffalo East                         | yes                     | no                                   |                                        |           |    |                               |
| BC MIDDLE        | TPN       | 5/1/04   | 40.192       | 80.448        | Middle Buff Creek                    | yes                     | no                                   |                                        |           |    |                               |
| BRUSH            | TPN       | 5/1/04   | 40.196       | 80.448        | Brush Run                            | yes                     | no                                   |                                        |           |    |                               |
| BC SOUTH         | TPN       | 5/1/04   | 40.152       | 80.371        | BC South                             | yes                     | no                                   |                                        |           |    |                               |
| LOWER DUTCH      | TPN       | 5/1/04   | 40.184       | 80.486        | DF mouth                             | yes                     | no                                   |                                        |           |    |                               |
| BUCK             | TPN       | 5/1/04   | 40.191       | 80.449        | Buck Run                             | yes                     | no                                   |                                        |           |    |                               |
| DUNKLE           | TPN       | 5/1/04   | 40.201       | 80.44         | Dunkle Run                           | yes                     | no                                   |                                        |           |    |                               |
| UPPER DUTCH FORK | TPN       | 5/1/04   | 40.123       | 80.473        | DF upper                             | yes                     | no                                   |                                        |           |    |                               |
| LOWER BUFFALO    | TPN       | 5/1/04   | 40.198       | 80.516        | WV border                            | yes                     | no                                   |                                        |           |    |                               |
| UPPER DUTCH FORK | TPN       | 5/1/04   | 40.137       | 80.474        | Lake                                 | yes                     | no                                   |                                        |           |    |                               |
| BC EAST          | TSS2      | 5/1/04   | 40.152       | 80.371        | Buffalo East                         | yes                     | no                                   |                                        |           |    |                               |
| BC MIDDLE        | TSS2      | 5/1/04   | 40.192       | 80.448        | Middle Buff Creek                    | yes                     | no                                   |                                        |           |    |                               |
| BRUSH            | TSS2      | 5/1/04   | 40.196       | 80.448        | Brush Run                            | yes                     | no                                   |                                        |           |    |                               |
| BC SOUTH         | TSS2      | 5/1/04   | 40.152       | 80.371        | BC South                             | yes                     | no                                   |                                        |           |    |                               |
| LOWER DUTCH      | TSS2      | 5/1/04   | 40.184       | 80.486        | DF mouth                             | yes                     | no                                   |                                        |           |    |                               |
| BUCK             | TSS2      | 5/1/04   | 40.191       | 80.449        | Buck Run                             | yes                     | no                                   |                                        |           |    |                               |
| DUNKLE           | TSS2      | 5/1/04   | 40.201       | 80.44         | Dunkle Run                           | yes                     | no                                   |                                        |           |    |                               |
| UPPER DUTCH FORK | TSS2      | 5/1/04   | 40.123       | 80.473        | DF upper                             | yes                     | no                                   |                                        |           |    |                               |
| LOWER BUFFALO    | TSS2      | 5/1/04   | 40.198       | 80.516        | WV border                            | yes                     | no                                   |                                        |           |    |                               |

| Subwatershed     | Site Type  | Date   | Latitude (N) | Longitude (W) | Site Desc.                          | Attaining WQ standards? | Probable impairment non WQ standard? | Parameter of impairment, if applicable | DO (mg/L) | pH | Total Dissolved Solids (mg/L) |
|------------------|------------|--------|--------------|---------------|-------------------------------------|-------------------------|--------------------------------------|----------------------------------------|-----------|----|-------------------------------|
| UPPER DUTCH FORK | TSS2       | 5/1/04 | 40.137       | 80.474        | Lake                                | yes                     | no                                   |                                        |           |    |                               |
| LOWER BUFFALO    | TN         | 5/1/04 | 40.198       | 80.516        | WV border                           | yes                     | no                                   |                                        |           |    |                               |
| BC EAST          | alkalinity | 6/1/04 | 40.152       | 80.371        | Buffalo Creek-S-Bridge              | yes                     | yes                                  | fecals                                 |           |    |                               |
| BC EAST          | alkalinity | 6/1/04 | 40.152       | 80.371        | Buffalo Creek-E Branch (mouth)      | yes                     | no                                   |                                        |           |    |                               |
| BC SOUTH         | alkalinity | 6/1/04 | 40.152       | 80.371        | Buffalo Creek -South Branch (mouth) | yes                     | no                                   |                                        |           |    |                               |
| BC MIDDLE        | alkalinity | 6/1/04 | 40.18        | 80.416        | Buffalo Creek-Covered Brdge.        | yes                     | no                                   |                                        |           |    |                               |
| BRUSH            | alkalinity | 6/1/04 | 40.196       | 80.448        | Brush Run (hump bridge)             | yes                     | yes                                  | fecals                                 |           |    |                               |
| BUCK             | alkalinity | 6/1/04 | 40.191       | 80.449        | Buck Run (near 231)                 | yes                     | no                                   |                                        |           |    |                               |
| LOWER DUTCH      | alkalinity | 6/1/04 | 40.184       | 80.486        | Lower D.Fork Creek (mouth)          | yes                     | no                                   |                                        |           |    |                               |

## Appendix H. Water Quality Database

| Subwatershed     | Site Type | Date        | Latitude (N) | Longitude (W) | Site Desc.              | Conductivity (uS) | Temp C | Nitrate (mg/L) | Phosphate(mg/L) | Turbidity (NTU) | Sulfate (mg/L) | Iron (mg/L) |
|------------------|-----------|-------------|--------------|---------------|-------------------------|-------------------|--------|----------------|-----------------|-----------------|----------------|-------------|
| BC EAST          | P         | 8/1/03      | 40.152       | 80.371        | upper BC East, S Bridge | 520               | 67.3   | 0.25           | 0               | 10              | 50             | 0.5         |
| BC SOUTH         | P         | 8/1/03      | 40.152       | 80.371        | upper BC South, 3009    | 540               | 67.3   | 0.25           | 0               | 10              | 50             | 0.5         |
| BC MIDDLE        | P         | 8/1/03      | 40.161       | 80.374        | BC gazebo               | 710               | 68.4   | 0.25           | 0               |                 | 50             | 0.75        |
| BRUSH            | S         | 8/1/03      | 40.209       | 80.351        | Brush Run UNT Ag strea  | 510               | 71.5   | 0.5            | 0               |                 | 20             | 1           |
| BUCK             | P         | 8/1/03      | 40.191       | 80.449        | Mouth Buck Run          | 420               | 68.1   | 0              | 0               |                 | 20             | 0           |
| LOWER BUFFALO    | P         | 8/1/03      | 40.198       | 80.516        | BC at WV border         | 510               | 73.5   | 0              | 0               |                 |                | 0.5         |
| LOWER DUTCH FORK | P         | 8/1/03      | 40.184       | 80.486        | Mouth Dutch Fork        | 540               | 73.3   | 0              | 0               |                 |                | 0+          |
| UPPER DUTCH FORK | S         | 8/1/03      | 40.15        | 80.476        | Dutch Fork Exit Lake    | 440               | 74.2   | 0.5            | 0               |                 | 50             | 0.5         |
| UPPER DUTCH FORK | P         | 8/1/03      | 40.184       | 80.486        | Mouth Dutch Fork        | 540               | 73.3   | 0              | 0               |                 |                | 0+          |
| BRUSH            | P         | Summer 2003 | 40.196       | 80.448        | Mouth Brush Run         | 530               | 68.7   | 0.25           | 0               |                 | 20             | 0           |
| DUNKLE           | P         | Summer 2003 | 40.201       | 80.44         | Mouth Dunkle Run        | 550               | 69.1   | 0.25           | 0               |                 |                | 0           |
| BC EAST          | P         | 10/22/03    | 40.152       | 80.371        | Upper BC East, S Bridge | 544               | 51.9   | 0.25           | 0               | 0               | 60             | 0           |
| BC EAST          | TSS       | 10/22/03    | 40.152       | 80.371        | Upper BC East, S Bridge |                   |        |                |                 |                 |                |             |

| Subwatershed | Site Type | Date     | Latitude (N) | Longitude (W) | Site Desc.                 | Conductivity (uS) | Temp C | Nitrate (mg/L) | Phosphate(mg/L) | Turbidity (NTU) | Sulfate (mg/L) | Iron (mg/L) |
|--------------|-----------|----------|--------------|---------------|----------------------------|-------------------|--------|----------------|-----------------|-----------------|----------------|-------------|
| BC SOUTH     | P         | 10/22/03 | 40.152       | 80.371        | upper BC South, 3009       | 460               | 52.7   | 0              | 0               | 0               | 10             | 0           |
| BC SOUTH     | TSS       | 10/22/03 | 40.152       | 80.371        | upper BC South, 3009       |                   |        |                |                 |                 |                |             |
| BC SOUTH     | CI        | 10/22/03 | 40.152       | 80.371        | upper BC South, 3009       |                   |        |                |                 |                 |                |             |
| BC MIDDLE    | S         | 10/22/03 | 40.161       | 80.379        | Wolf Mouth                 | 423               | 52     | 0.25           | 0               | <5              | 20             | 0           |
| BC MIDDLE    | TSS       | 10/22/03 | 40.161       | 80.379        | Wolf Mouth                 |                   |        |                |                 |                 |                |             |
| BC MIDDLE    | CI        | 10/22/03 | 40.161       | 80.379        | Wolf Mouth                 |                   |        |                |                 |                 |                |             |
| BC MIDDLE    | S         | 10/22/03 | 40.18        | 40.416        | BC Covered Bridge          | 484               | 53.1   | 0              | 0               | <10             | 20-50          | 0           |
| BC MIDDLE    | P         | 10/22/03 | 40.192       | 80.448        | Middle Buffalo Creek Mouth | 500               | 52.7   | 0              | 0               | <10             | 20             | 0           |
| BC MIDDLE    | TSS       | 10/22/03 | 40.192       | 80.448        | Middle Buffalo Creek Mouth |                   |        |                |                 |                 |                |             |
| BRUSH        | S         | 10/22/03 | 40.207       | 80.36         | Maple Road                 | 560               | 51.3   | 0              | 0               | 10              | 40             | 0           |
| BRUSH        | CI        | 10/22/03 | 40.207       | 80.36         | Maple Road                 |                   |        |                |                 |                 |                |             |
| BRUSH        | P         | 10/22/03 | 40.196       | 80.448        | Mouth Brush Run            | 523               | 51.9   | 0              | 0               | <10             | 50             | 0           |
| BRUSH        | TSS       | 10/22/03 | 40.196       | 80.448        | Mouth Brush Run            |                   |        |                |                 |                 |                |             |
| BUCK         | P         | 10/22/03 | 40.191       | 80.449        | Mouth Buck Run             | 402               | 52.3   | 0              | 0               | <10             |                |             |
| BUCK         | TSS       | 10/22/03 | 40.191       | 80.449        | Mouth Buck Run             |                   |        |                |                 |                 |                |             |
| BUCK         | CI        | 10/22/03 | 40.191       | 80.449        | Mouth Buck Run             |                   |        |                |                 |                 |                |             |
| DUNKLE       | P         | 10/22/03 | 40.201       | 80.44         | Mouth Dunkle Run           | 552               | 51.8   | 0.25           | 0               | <10             | <50            | 0           |

| Subwatershed     | Site Type | Date     | Latitude (N) | Longitude (W) | Site Desc.                   | Conductivity (uS) | Temp C | Nitrate (mg/L) | Phosphate(mg/L) | Turbidity (NTU) | Sulfate (mg/L) | Iron (mg/L) |
|------------------|-----------|----------|--------------|---------------|------------------------------|-------------------|--------|----------------|-----------------|-----------------|----------------|-------------|
| DUNKLE           | TSS       | 10/22/03 | 40.201       | 80.44         | Mouth Dunkle Run             |                   |        |                |                 |                 |                |             |
| SUGARCAMP        | S         | 10/22/03 | 40.208       | 80.506        | Sugarcamp at Frogtown        | 424               | 52.2   | 0.25           | 0               | <10             | 50             | 0           |
| CASTLEMAN        | S         | 10/22/03 | 40.139       | 80.513        | Castleman Mouth              | 387               |        | 0              | 0               |                 | 20-50          | 0           |
| CASTLEMAN        | TSS       | 10/22/03 | 40.139       | 80.513        | Castleman Mouth              |                   |        |                |                 |                 |                |             |
| LOWER BUFFALO    | P         | 10/22/03 | 40.198       | 80.516        | BC at WV border              | 460               | 55     | 0              | 0               | <10             | 50             | 0           |
| LOWER DUTCH      | P         | 10/22/03 | 40.184       | 80.486        | Mouth Dutch Fork             | 452               | 52     | 0              | 0               | <10             | 50             | 0           |
| UPPER DUTCH FORK | P         | 10/22/03 | 40.123       | 80.473        | Dutch Fork Into Lake         | 466               | 52.4   | 0              | <.05            |                 | 0              | 0           |
| UPPER DUTCH FORK | CI        | 10/22/03 | 40.123       | 80.473        | Dutch Fork Into Lake         |                   |        |                |                 |                 |                |             |
| UPPER DUTCH FORK | S         | 10/22/03 | 40.118       | 80.451        | Cunningham                   | 388               | 52.5   | 0              | 0               |                 | 20             | 0           |
| UPPER DUTCH FORK | CI        | 10/22/03 | 40.118       | 80.451        | Cunningham                   |                   |        |                |                 |                 |                |             |
| UPPER DUTCH FORK | CI        | 10/22/03 | 40.17        | 80.387        | Reed Run Mouth               |                   |        |                |                 |                 |                |             |
| UPPER DUTCH FORK | TSS       | 10/22/03 | 40.15        | 80.476        | Dutch Fork Exit Lake         |                   |        |                |                 |                 |                |             |
| UPPER DUTCH FORK | P         | 10/22/03 | 40.184       | 80.486        | Mouth Dutch Fork             | 452               | 52     | 0              | 0               | <10             | 50             | 0           |
| BC EAST          | P         | 3/24/04  | 40.152       | 80.371        | Upper BC East, S Bridge      | 580               | 40.1   | 1              | 0               | n/a             | n/a            | 0           |
| BC EAST          | S         | 3/24/04  | 40.129       | 80.323        | Mount Valey/Jolly School Rd. | 380               | n/a    | 0.5            | 0               | n/a             | <20            | 0           |
| BC SOUTH         | P         | 3/24/04  | 40.152       | 80.371        | upper BC South, 3009         | 400               | n/a    | 0.5            | 0               | n/a             | 50             | 0           |
| BC MIDDLE        | P         | 3/24/04  | 40.161       | 80.374        | BC gazebo                    | 470               | 40.03  | ~1.0           | 0               |                 | 50             | .5-1.0      |

| Subwatershed     | Site Type | Date    | Latitude (N) | Longitude (W) | Site Desc.                  | Conductivity (uS) | Temp C | Nitrate (mg/L) | Phosphate(mg/L) | Turbidity (NTU) | Sulfate (mg/L) | Iron (mg/L) |
|------------------|-----------|---------|--------------|---------------|-----------------------------|-------------------|--------|----------------|-----------------|-----------------|----------------|-------------|
| BC MIDDLE        | P         | 3/24/04 | 40.192       | 80.448        | Middle Buffalo Creek Mouth  | 440               | 41.9   | 0.5            | 0               | n/a             | n/a            | 0           |
| BRUSH            | P         | 3/24/04 | 40.196       | 80.448        | Mouth Brush Run             | 470               | n/a    | 1.0-2.0        | 0               | n/a             | n/a            | 0           |
| BUCK             | P         | 3/24/04 | 40.191       | 80.449        | Mouth Buck Run              | 330               | 40.6   | 0.25-0.5       | 0               | n/a             | 50             | 0           |
| LOWER BUFFALO    | S         | 3/24/04 | 40.199       | 80.445        | Hickory Nut Road            | 440               | n/a    | 1.0-2.0        | 0               | n/a             | 50-80          | 0.5         |
| LOWER BUFFALO    | S         | 3/24/04 | 40.19        | 80.476        | Narigan Run                 | 370               | 44.2   | 0.5            | 0               | n/a             | 50-80          | 0           |
| LOWER BUFFALO    | P         | 3/24/04 | 40.198       | 80.516        | BC at WV border             | 440               | n/a    | 0.5            | 0               | n/a             | n/a            | 0           |
| LOWER BUFFALO    | S         | 3/24/04 | 40.187       | 80.501        | Dog Run                     | 360               | n/a    | 0.25           | 0               | n/a             | n/a            | 0           |
| LOWER DUTCH      | P         | 3/24/04 | 40.184       | 80.486        | Mouth Dutch Fork            | 460               | n/s    | 0.5            | 0               | n/a             | n/a            | 0           |
| UPPER DUTCH FORK | P         | 3/24/04 | 40.123       | 80.473        | Dutch Fork Into Lake        | 380               | n/a    | 0.25           | 0               | n/s             | n/s            | 0           |
| UPPER DUTCH FORK | S         | 3/24/04 | 40.112       | 80.465        | Below Truck Stop            | 530               | n/a    | unk            | 0               | n/a             |                |             |
| UPPER DUTCH FORK | P         | 3/24/04 | 40.184       | 80.486        | Mouth Dutch Fork            | 460               | n/s    | 0.5            | 0               | n/a             | n/a            | 0           |
| BC EAST          | S         | 9/16/04 | 40.128       | 80.336        | BC East, Upper Culvert      | 440               | 61.7   | <.25           | <.05            |                 | ~20            | ~3          |
| BC EAST          | S         | 9/16/04 | 40.141       | 80.352        | S Bridge, small Trib        | 730               | 62.7   | <.25           | n/a             |                 | 20-50          | 0           |
| BC EAST          | S         | 9/16/04 | 40.149       | 80.362        | Buffalo East, Overpass area | 530               | 64.7   | ~.25           |                 |                 | 20-50          | <.5         |
| BC MIDDLE        | P         | 9/16/04 | 40.161       | 80.374        | BC Gazebo                   | 479               | 64.7   | <.25           |                 |                 | 20-50          | <.5         |
| BUCK             | S         | 9/16/04 | 40.15        | 80.429        | Buck Run Headwaters         | 360               | 64.7   | 0              | n/a             |                 | ~50            | ~.5         |
| SUGARCAMP        | S         | 9/16/04 | 40.217       | 80.484        | Sugarcamp upstream          | 520               | 67.9   | .25-.5         | n/a             |                 |                |             |

| Subwatershed     | Site Type | Date     | Latitude (N) | Longitude (W) | Site Desc.                      | Conductivity (uS) | Temp C | Nitrate (mg/L) | Phosphate(mg/L) | Turbidity (NTU) | Sulfate (mg/L) | Iron (mg/L) |
|------------------|-----------|----------|--------------|---------------|---------------------------------|-------------------|--------|----------------|-----------------|-----------------|----------------|-------------|
| INDIANCAMP       | S         | 9/16/04  | 40.206       | 80.454        | Indiancamp Upper                | 320               | 68.3   | ~.25           |                 |                 | ~60            | ~.5         |
| LOWER BUFFALO    | S         | 9/16/04  | 40.206       | 80.454        | Lower BC Trib # 1               | 400               | 65.6   | 0              |                 |                 | 50-80          | 0           |
| DUNKLE           | S         | 9/1/04   | 40.229       | 80.44         | Dunkle Run Trib                 |                   |        | .5-1.0         |                 |                 |                |             |
| BC EAST          | P         | 9/1/04   | 40.152       | 80.371        | S-Bridge BC                     |                   |        | 1.0-2.0        |                 |                 |                |             |
| BRUSH            | S         | 9/1/04   | 40.207       | 80.36         | Brush Run Trib Maple RD         |                   |        | 4              |                 |                 |                |             |
| BC EAST          | FC        | 8/18/04  | 40.152       | 80.371        | Buffalo Creek East, S Bridge    |                   |        |                |                 |                 |                |             |
| BC MIDDLE        | FC        | 8/18/04  | 40.161       | 80.374        | Buffalo Creek, Taylorstown      |                   |        |                |                 |                 |                |             |
| LOWER BUFFALO    | FC        | 8/18/04  | 40.19        | 80.497        | Buffalo Creek, rt. 3003 Bridge  |                   |        |                |                 |                 |                |             |
| DUNKLE           | FC        | 8/18/04  | 40.201       | 80.44         | Dunkle Run, mouth               |                   |        |                |                 |                 |                |             |
| BUCK             | FC        | 8/18/04  | 40.191       | 80.449        | Buck Run, near mouth            |                   |        |                |                 |                 |                |             |
| BC SOUTH         | FC        | 8/18/04  | 40.205       | 78.485        | UNT, Newman Rd.                 |                   |        |                |                 |                 |                |             |
| UPPER DUTCH FORK | FC        | 8/18/04  | 40.123       | 80.473        | Upper D. Fork, before reservoir |                   |        |                |                 |                 |                |             |
| BRUSH            | FC        | 8/18/04  | 40.2         | 80.445        | UNT, Hickory Nut Rd.            |                   |        |                |                 |                 |                |             |
| BC EAST          | FC        | 10/19/04 | 40.152       | 80.371        | Buffalo Creek East, S Bridge    |                   |        |                |                 |                 |                |             |
| BC EAST          | FC        | 10/19/04 | 40.161       | 80.374        | Buffalo Creek, Taylorstown      |                   |        |                |                 |                 |                |             |
| BC MIDDLE        | FC        | 10/19/04 | 40.19        | 80.497        | Buffalo Creek, rt. 3003 Bridge  |                   |        |                |                 |                 |                |             |
| BUFFALO          | FC        | 10/19/04 | 40.201       | 80.44         | Dunkle Run, mouth               |                   |        |                |                 |                 |                |             |
| DUNKLE           | FC        | 10/19/04 | 40.191       | 80.449        | Buck Run, near mouth            |                   |        |                |                 |                 |                |             |

| Subwatershed     | Site Type | Date     | Latitude (N) | Longitude (W) | Site Desc.                           | Conductivity (uS) | Temp C | Nitrate (mg/L) | Phosphate(mg/L) | Turbidity (NTU) | Sulfate (mg/L) | Iron (mg/L) |
|------------------|-----------|----------|--------------|---------------|--------------------------------------|-------------------|--------|----------------|-----------------|-----------------|----------------|-------------|
| BUCK             | FC        | 10/19/04 | 40.205       | 78.485        | UNT, Newman Rd.                      |                   |        |                |                 |                 |                |             |
| BC SOUTH         | FC        | 10/19/04 | 40.123       | 80.473        | Upper D. Fork, before reservoir      |                   |        |                |                 |                 |                |             |
| UPPER DUTCH FORK | FC        | 10/19/04 | 40.137       | 80.374        | Upper Buffalo Creek, softball fields |                   |        |                |                 |                 |                |             |
| BC EAST          | TPN       | 5/1/04   | 40.152       | 80.371        | Buffalo East                         |                   |        |                |                 |                 |                |             |
| BC MIDDLE        | TPN       | 5/1/04   | 40.192       | 80.448        | Middle Buff Creek                    |                   |        |                |                 |                 |                |             |
| BRUSH            | TPN       | 5/1/04   | 40.196       | 80.448        | Brush Run                            |                   |        |                |                 |                 |                |             |
| BC SOUTH         | TPN       | 5/1/04   | 40.152       | 80.371        | BC South                             |                   |        |                |                 |                 |                |             |
| LOWER DUTCH      | TPN       | 5/1/04   | 40.184       | 80.486        | DF mouth                             |                   |        |                |                 |                 |                |             |
| BUCK             | TPN       | 5/1/04   | 40.191       | 80.449        | Buck Run                             |                   |        |                |                 |                 |                |             |
| DUNKLE           | TPN       | 5/1/04   | 40.201       | 80.44         | Dunkle Run                           |                   |        |                |                 |                 |                |             |
| UPPER DUTCH FORK | TPN       | 5/1/04   | 40.123       | 80.473        | DF upper                             |                   |        |                |                 |                 |                |             |
| LOWER BUFFALO    | TPN       | 5/1/04   | 40.198       | 80.516        | WV border                            |                   |        |                |                 |                 |                |             |
| UPPER DUTCH FORK | TPN       | 5/1/04   | 40.137       | 80.474        | Lake                                 |                   |        |                |                 |                 |                |             |
| BC EAST          | TSS2      | 5/1/04   | 40.152       | 80.371        | Buffalo East                         |                   |        |                |                 |                 |                |             |
| BC MIDDLE        | TSS2      | 5/1/04   | 40.192       | 80.448        | Middle Buff Creek                    |                   |        |                |                 |                 |                |             |
| BRUSH            | TSS2      | 5/1/04   | 40.196       | 80.448        | Brush Run                            |                   |        |                |                 |                 |                |             |
| BC SOUTH         | TSS2      | 5/1/04   | 40.152       | 80.371        | BC South                             |                   |        |                |                 |                 |                |             |
| LOWER DUTCH      | TSS2      | 5/1/04   | 40.184       | 80.486        | DF mouth                             |                   |        |                |                 |                 |                |             |
| BUCK             | TSS2      | 5/1/04   | 40.191       | 80.449        | Buck Run                             |                   |        |                |                 |                 |                |             |
| DUNKLE           | TSS2      | 5/1/04   | 40.201       | 80.44         | Dunkle Run                           |                   |        |                |                 |                 |                |             |
| UPPER DUTCH FORK | TSS2      | 5/1/04   | 40.123       | 80.473        | DF upper                             |                   |        |                |                 |                 |                |             |
| LOWER BUFFALO    | TSS2      | 5/1/04   | 40.198       | 80.516        | WV border                            |                   |        |                |                 |                 |                |             |

| Subwatershed     | Site Type  | Date   | Latitude (N) | Longitude (W) | Site Desc.                          | Conductivity (uS) | Temp C | Nitrate (mg/L) | Phosphate(mg/L) | Turbidity (NTU) | Sulfate (mg/L) | Iron (mg/L) |
|------------------|------------|--------|--------------|---------------|-------------------------------------|-------------------|--------|----------------|-----------------|-----------------|----------------|-------------|
| UPPER DUTCH FORK | TSS2       | 5/1/04 | 40.137       | 80.474        | Lake                                |                   |        |                |                 |                 |                |             |
| LOWER BUFFALO    | TN         | 5/1/04 | 40.198       | 80.516        | WV border                           |                   |        |                |                 |                 |                |             |
| BC EAST          | alkalinity | 6/1/04 | 40.152       | 80.371        | Buffalo Creek-S-Bridge              |                   |        |                |                 |                 |                |             |
| BC EAST          | alkalinity | 6/1/04 | 40.152       | 80.371        | Buffalo Creek-E Branch (mouth)      |                   |        |                |                 |                 |                |             |
| BC SOUTH         | alkalinity | 6/1/04 | 40.152       | 80.371        | Buffalo Creek -South Branch (mouth) |                   |        |                |                 |                 |                |             |
| BC MIDDLE        | alkalinity | 6/1/04 | 40.18        | 80.416        | Buffalo Creek-Covered Brdge.        |                   |        |                |                 |                 |                |             |
| BRUSH            | alkalinity | 6/1/04 | 40.196       | 80.448        | Brush Run (hump bridge)             |                   |        |                |                 |                 |                |             |
| BUCK             | alkalinity | 6/1/04 | 40.191       | 80.449        | Buck Run (near 231)                 |                   |        |                |                 |                 |                |             |
| LOWER DUTCH      | alkalinity | 6/1/04 | 40.184       | 80.486        | Lower D.Fork Creek (mouth)          |                   |        |                |                 |                 |                |             |

## Appendix H. Water Quality Database

| Subwatershed     | Site Type | Date        | Latitude (N) | Longitude (W) | Site Desc.              | TSS (mg/L) | Cl (mg/L) | Total P (mg/L) | Total N (mg/L) | Fecal Coliform (units/100 mL) | Alkalinity (mg/L) |
|------------------|-----------|-------------|--------------|---------------|-------------------------|------------|-----------|----------------|----------------|-------------------------------|-------------------|
| BC EAST          | P         | 8/1/03      | 40.152       | 80.371        | upper BC East, S Bridge |            |           |                |                |                               |                   |
| BC SOUTH         | P         | 8/1/03      | 40.152       | 80.371        | upper BC South, 3009    |            |           |                |                |                               |                   |
| BC MIDDLE        | P         | 8/1/03      | 40.161       | 80.374        | BC gazebo               |            |           |                |                |                               |                   |
| BRUSH            | S         | 8/1/03      | 40.209       | 80.351        | Brush Run UNT Ag strea  |            |           |                |                |                               |                   |
| BUCK             | P         | 8/1/03      | 40.191       | 80.449        | Mouth Buck Run          |            |           |                |                |                               |                   |
| LOWER BUFFALO    | P         | 8/1/03      | 40.198       | 80.516        | BC at WV border         |            |           |                |                |                               |                   |
| LOWER DUTCH FORK | P         | 8/1/03      | 40.184       | 80.486        | Mouth Dutch Fork        |            |           |                |                |                               |                   |
| UPPER DUTCH FORK | S         | 8/1/03      | 40.15        | 80.476        | Dutch Fork Exit Lake    |            |           |                |                |                               |                   |
| BRUSH            | P         | Summer 2003 | 40.196       | 80.448        | Mouth Brush Run         |            |           |                |                |                               |                   |
| DUNKLE           | P         | Summer 2003 | 40.201       | 80.44         | Mouth Dunkle Run        |            |           |                |                |                               |                   |
| BC EAST          | P         | 10/22/03    | 40.152       | 80.371        | Upper BC East, S Bridge |            |           |                |                |                               |                   |
| BC EAST          | TSS       | 10/22/03    | 40.152       | 80.371        | Upper BC East, S Bridge | <3         |           |                |                |                               |                   |

| Subwatershed | Site Type | Date     | Latitude (N) | Longitude (W) | Site Desc.                 | TSS (mg/L) | Cl (mg/L) | Total P (mg/L) | Total N (mg/L) | Fecal Coliform (units/100 mL) | Alkalinity (mg/L) |
|--------------|-----------|----------|--------------|---------------|----------------------------|------------|-----------|----------------|----------------|-------------------------------|-------------------|
| BC SOUTH     | P         | 10/22/03 | 40.152       | 80.371        | upper BC South, 3009       |            |           |                |                |                               |                   |
| BC SOUTH     | TSS       | 10/22/03 | 40.152       | 80.371        | upper BC South, 3009       | <3         |           |                |                |                               |                   |
| BC SOUTH     | Cl        | 10/22/03 | 40.152       | 80.371        | upper BC South, 3009       |            | 26.2      |                |                |                               |                   |
| BC MIDDLE    | S         | 10/22/03 | 40.161       | 80.379        | Wolf Mouth                 |            |           |                |                |                               |                   |
| BC MIDDLE    | TSS       | 10/22/03 | 40.161       | 80.379        | Wolf Mouth                 | <3         |           |                |                |                               |                   |
| BC MIDDLE    | Cl        | 10/22/03 | 40.161       | 80.379        | Wolf Mouth                 |            | 35.3      |                |                |                               |                   |
| BC MIDDLE    | S         | 10/22/03 | 40.18        | 40.416        | BC Covered Bridge          |            |           |                |                |                               |                   |
| BC MIDDLE    | P         | 10/22/03 | 40.192       | 80.448        | Middle Buffalo Creek Mouth |            |           |                |                |                               |                   |
| BC MIDDLE    | TSS       | 10/22/03 | 40.192       | 80.448        | Middle Buffalo Creek Mouth | <3         |           |                |                |                               |                   |
| BRUSH        | S         | 10/22/03 | 40.207       | 80.36         | Maple Road                 |            |           |                |                |                               |                   |
| BRUSH        | Cl        | 10/22/03 | 40.207       | 80.36         | Maple Road                 |            | 28.8      |                |                |                               |                   |
| BRUSH        | P         | 10/22/03 | 40.196       | 80.448        | Mouth Brush Run            |            |           |                |                |                               |                   |
| BRUSH        | TSS       | 10/22/03 | 40.196       | 80.448        | Mouth Brush Run            | <3         |           |                |                |                               |                   |
| BUCK         | P         | 10/22/03 | 40.191       | 80.449        | Mouth Buck Run             |            |           |                |                |                               |                   |
| BUCK         | TSS       | 10/22/03 | 40.191       | 80.449        | Mouth Buck Run             | <3         |           |                |                |                               |                   |
| BUCK         | Cl        | 10/22/03 | 40.191       | 80.449        | Mouth Buck Run             |            | 6.7       |                |                |                               |                   |
| DUNKLE       | P         | 10/22/03 | 40.201       | 80.44         | Mouth Dunkle Run           |            |           |                |                |                               |                   |

| Subwatershed     | Site Type | Date     | Latitude (N) | Longitude (W) | Site Desc.                   | TSS (mg/L) | Cl (mg/L) | Total P (mg/L) | Total N (mg/L) | Fecal Coliform (units/100 mL) | Alkalinity (mg/L) |
|------------------|-----------|----------|--------------|---------------|------------------------------|------------|-----------|----------------|----------------|-------------------------------|-------------------|
| DUNKLE           | TSS       | 10/22/03 | 40.201       | 80.44         | Mouth Dunkle Run             | <3         |           |                |                |                               |                   |
| SUGARCAMP        | S         | 10/22/03 | 40.208       | 80.506        | Sugarcamp at Frogtown        |            |           |                |                |                               |                   |
| CASTLEMAN        | S         | 10/22/03 | 40.139       | 80.513        | Castleman Mouth              |            |           |                |                |                               |                   |
| CASTLEMAN        | TSS       | 10/22/03 | 40.139       | 80.513        | Castleman Mouth              | <3         |           |                |                |                               |                   |
| LOWER BUFFALO    | P         | 10/22/03 | 40.198       | 80.516        | BC at WV border              |            |           |                |                |                               |                   |
| LOWER DUTCH      | P         | 10/22/03 | 40.184       | 80.486        | Mouth Dutch Fork             |            |           |                |                |                               |                   |
| UPPER DUTCH FORK | P         | 10/22/03 | 40.123       | 80.473        | Dutch Fork Into Lake         |            |           |                |                |                               |                   |
| UPPER DUTCH FORK | Cl        | 10/22/03 | 40.123       | 80.473        | Dutch Fork Into Lake         |            | 66.5      |                |                |                               |                   |
| UPPER DUTCH FORK | S         | 10/22/03 | 40.118       | 80.451        | Cunningham                   |            |           |                |                |                               |                   |
| UPPER DUTCH FORK | Cl        | 10/22/03 | 40.118       | 80.451        | Cunningham                   |            | 3.8       |                |                |                               |                   |
| UPPER DUTCH FORK | Cl        | 10/22/03 | 40.17        | 80.387        | Reed Run Mouth               |            | 28.4      |                |                |                               |                   |
| UPPER DUTCH FORK | TSS       | 10/22/03 | 40.15        | 80.476        | Dutch Fork Exit Lake         | 4          |           |                |                |                               |                   |
| UPPER DUTCH FORK | P         | 10/22/03 | 40.184       | 80.486        | Mouth Dutch Fork             |            |           |                |                |                               |                   |
| BC EAST          | P         | 3/24/04  | 40.152       | 80.371        | Upper BC East, S Bridge      |            |           |                |                |                               |                   |
| BC EAST          | S         | 3/24/04  | 40.129       | 80.323        | Mount Valey/Jolly School Rd. |            |           |                |                |                               |                   |
| BC SOUTH         | P         | 3/24/04  | 40.152       | 80.371        | upper BC South, 3009         |            |           |                |                |                               |                   |
| BC MIDDLE        | P         | 3/24/04  | 40.161       | 80.374        | BC gazebo                    |            |           |                |                |                               |                   |

| Subwatershed     | Site Type | Date    | Latitude (N) | Longitude (W) | Site Desc.                  | TSS (mg/L) | Cl (mg/L) | Total P (mg/L) | Total N (mg/L) | Fecal Coliform (units/100 mL) | Alkalinity (mg/L) |
|------------------|-----------|---------|--------------|---------------|-----------------------------|------------|-----------|----------------|----------------|-------------------------------|-------------------|
| BC MIDDLE        | P         | 3/24/04 | 40.192       | 80.448        | Middle Buffalo Creek Mouth  |            |           |                |                |                               |                   |
| BRUSH            | P         | 3/24/04 | 40.196       | 80.448        | Mouth Brush Run             |            |           |                |                |                               |                   |
| BUCK             | P         | 3/24/04 | 40.191       | 80.449        | Mouth Buck Run              |            |           |                |                |                               |                   |
| LOWER BUFFALO    | S         | 3/24/04 | 40.199       | 80.445        | Hickory Nut Road            |            |           |                |                |                               |                   |
| LOWER BUFFALO    | S         | 3/24/04 | 40.19        | 80.476        | Narigan Run                 |            |           |                |                |                               |                   |
| LOWER BUFFALO    | P         | 3/24/04 | 40.198       | 80.516        | BC at WV border             |            |           |                |                |                               |                   |
| LOWER BUFFALO    | S         | 3/24/04 | 40.187       | 80.501        | Dog Run                     |            |           |                |                |                               |                   |
| LOWER DUTCH      | P         | 3/24/04 | 40.184       | 80.486        | Mouth Dutch Fork            |            |           |                |                |                               |                   |
| UPPER DUTCH FORK | P         | 3/24/04 | 40.123       | 80.473        | Dutch Fork Into Lake        |            |           |                |                |                               |                   |
| UPPER DUTCH FORK | S         | 3/24/04 | 40.112       | 80.465        | Below Truck Stop            |            |           |                |                |                               |                   |
| UPPER DUTCH FORK | P         | 3/24/04 | 40.184       | 80.486        | Mouth Dutch Fork            |            |           |                |                |                               |                   |
| BC EAST          | S         | 9/16/04 | 40.128       | 80.336        | BC East, Upper Culvert      |            |           |                |                |                               |                   |
| BC EAST          | S         | 9/16/04 | 40.141       | 80.352        | S Bridge, small Trib        |            |           |                |                |                               |                   |
| BC EAST          | S         | 9/16/04 | 40.149       | 80.362        | Buffalo East, Overpass area |            |           |                |                |                               |                   |
| BC MIDDLE        | P         | 9/16/04 | 40.161       | 80.374        | BC Gazebo                   |            |           |                |                |                               |                   |
| BUCK             | S         | 9/16/04 | 40.15        | 80.429        | Buck Run Headwaters         |            |           |                |                |                               |                   |
| SUGARCAMP        | S         | 9/16/04 | 40.217       | 80.484        | Sugarcamp upstream          |            |           |                |                |                               |                   |

| Subwatershed     | Site Type | Date     | Latitude (N) | Longitude (W) | Site Desc.                      | TSS (mg/L) | Cl (mg/L) | Total P (mg/L) | Total N (mg/L) | Fecal Coliform (units/100 mL) | Alkalinity (mg/L) |
|------------------|-----------|----------|--------------|---------------|---------------------------------|------------|-----------|----------------|----------------|-------------------------------|-------------------|
| INDIANCAMP       | S         | 9/16/04  | 40.206       | 80.454        | Indiancamp Upper                |            |           |                |                |                               |                   |
| LOWER BUFFALO    | S         | 9/16/04  | 40.206       | 80.454        | Lower BC Trib # 1               |            |           |                |                |                               |                   |
| DUNKLE           | S         | 9/1/04   | 40.229       | 80.44         | Dunkle Run Trib                 |            |           |                |                |                               |                   |
| BC EAST          | P         | 9/1/04   | 40.152       | 80.371        | S-Bridge BC                     |            |           |                |                |                               |                   |
| BRUSH            | S         | 9/1/04   | 40.207       | 80.36         | Brush Run Trib Maple RD         |            |           |                |                |                               |                   |
| BC EAST          | FC        | 8/18/04  | 40.152       | 80.371        | Buffalo Creek East, S Bridge    |            |           |                |                | >200                          |                   |
| BC MIDDLE        | FC        | 8/18/04  | 40.161       | 80.374        | Buffalo Creek, Taylorstown      |            |           |                |                | >200                          |                   |
| LOWER BUFFALO    | FC        | 8/18/04  | 40.19        | 80.497        | Buffalo Creek, rt. 3003 Bridge  |            |           |                |                | >200                          |                   |
| DUNKLE           | FC        | 8/18/04  | 40.201       | 80.44         | Dunkle Run, mouth               |            |           |                |                | 0                             |                   |
| BUCK             | FC        | 8/18/04  | 40.191       | 80.449        | Buck Run, near mouth            |            |           |                |                | >200                          |                   |
| BC SOUTH         | FC        | 8/18/04  | 40.205       | 78.485        | UNT, Newman Rd.                 |            |           |                |                | >200                          |                   |
| UPPER DUTCH FORK | FC        | 8/18/04  | 40.123       | 80.473        | Upper D. Fork, before reservoir |            |           |                |                | >200                          |                   |
| BRUSH            | FC        | 8/18/04  | 40.2         | 80.445        | UNT, Hickory Nut Rd.            |            |           |                |                | >200                          |                   |
| BC EAST          | FC        | 10/19/04 | 40.152       | 80.371        | Buffalo Creek East, S Bridge    |            |           |                |                | 2540                          |                   |
| BC EAST          | FC        | 10/19/04 | 40.161       | 80.374        | Buffalo Creek, Taylorstown      |            |           |                |                | 3600                          |                   |
| BC MIDDLE        | FC        | 10/19/04 | 40.19        | 80.497        | Buffalo Creek, rt. 3003 Bridge  |            |           |                |                | 3100                          |                   |
| BUFFALO          | FC        | 10/19/04 | 40.201       | 80.44         | Dunkle Run, mouth               |            |           |                |                | 3760                          |                   |
| DUNKLE           | FC        | 10/19/04 | 40.191       | 80.449        | Buck Run, near mouth            |            |           |                |                | 1430                          |                   |

| Subwatershed     | Site Type | Date     | Latitude (N) | Longitude (W) | Site Desc.                           | TSS (mg/L) | Cl (mg/L) | Total P (mg/L) | Total N (mg/L) | Fecal Coliform (units/100 mL) | Alkalinity (mg/L) |
|------------------|-----------|----------|--------------|---------------|--------------------------------------|------------|-----------|----------------|----------------|-------------------------------|-------------------|
| BUCK             | FC        | 10/19/04 | 40.205       | 78.485        | UNT, Newman Rd.                      |            |           |                |                | 2460                          |                   |
| BC SOUTH         | FC        | 10/19/04 | 40.123       | 80.473        | Upper D. Fork, before reservoir      |            |           |                |                | 2340                          |                   |
| UPPER DUTCH FORK | FC        | 10/19/04 | 40.137       | 80.374        | Upper Buffalo Creek, softball fields |            |           |                |                | 1560                          |                   |
| BC EAST          | TPN       | 5/1/04   | 40.152       | 80.371        | Buffalo East                         |            |           | 0.08           |                |                               |                   |
| BC MIDDLE        | TPN       | 5/1/04   | 40.192       | 80.448        | Middle Buff Creek                    |            |           | 0.09           |                |                               |                   |
| BRUSH            | TPN       | 5/1/04   | 40.196       | 80.448        | Brush Run                            |            |           | 0.24           |                |                               |                   |
| BC SOUTH         | TPN       | 5/1/04   | 40.152       | 80.371        | BC South                             |            |           | 0.11           |                |                               |                   |
| LOWER DUTCH      | TPN       | 5/1/04   | 40.184       | 80.486        | DF mouth                             |            |           | 0.05           |                |                               |                   |
| BUCK             | TPN       | 5/1/04   | 40.191       | 80.449        | Buck Run                             |            |           | 0.18           |                |                               |                   |
| DUNKLE           | TPN       | 5/1/04   | 40.201       | 80.44         | Dunkle Run                           |            |           | 0.1            |                |                               |                   |
| UPPER DUTCH FORK | TPN       | 5/1/04   | 40.123       | 80.473        | DF upper                             |            |           | 0.13           |                |                               |                   |
| LOWER BUFFALO    | TPN       | 5/1/04   | 40.198       | 80.516        | WV border                            |            |           | 0.05           |                |                               |                   |
| UPPER DUTCH FORK | TPN       | 5/1/04   | 40.137       | 80.474        | Lake                                 |            |           | 0.02           |                |                               |                   |
| BC EAST          | TSS2      | 5/1/04   | 40.152       | 80.371        | Buffalo East                         | 55.7       |           |                |                |                               |                   |
| BC MIDDLE        | TSS2      | 5/1/04   | 40.192       | 80.448        | Middle Buff Creek                    | 94.3       |           |                |                |                               |                   |
| BRUSH            | TSS2      | 5/1/04   | 40.196       | 80.448        | Brush Run                            | 65.7       |           |                |                |                               |                   |
| BC SOUTH         | TSS2      | 5/1/04   | 40.152       | 80.371        | BC South                             | 67.1       |           |                |                |                               |                   |
| LOWER DUTCH      | TSS2      | 5/1/04   | 40.184       | 80.486        | DF mouth                             | 28.6       |           |                |                |                               |                   |
| BUCK             | TSS2      | 5/1/04   | 40.191       | 80.449        | Buck Run                             | 24.3       |           |                |                |                               |                   |
| DUNKLE           | TSS2      | 5/1/04   | 40.201       | 80.44         | Dunkle Run                           | 48.6       |           |                |                |                               |                   |
| UPPER DUTCH FORK | TSS2      | 5/1/04   | 40.123       | 80.473        | DF upper                             | 38.6       |           |                |                |                               |                   |
| LOWER BUFFALO    | TSS2      | 5/1/04   | 40.198       | 80.516        | WV border                            | 94.3       |           |                |                |                               |                   |

| Subwatershed     | Site Type  | Date   | Latitude (N) | Longitude (W) | Site Desc.                          | TSS (mg/L) | Cl (mg/L) | Total P (mg/L) | Total N (mg/L) | Fecal Coliform (units/100 mL) | Alkalinity (mg/L) |
|------------------|------------|--------|--------------|---------------|-------------------------------------|------------|-----------|----------------|----------------|-------------------------------|-------------------|
| UPPER DUTCH FORK | TSS2       | 5/1/04 | 40.137       | 80.474        | Lake                                | 12.9       |           |                |                |                               |                   |
| LOWER BUFFALO    | TN         | 5/1/04 | 40.198       | 80.516        | WV border                           |            |           |                | 0.84           |                               |                   |
| BC EAST          | alkalinity | 6/1/04 | 40.152       | 80.371        | Buffalo Creek-S-Bridge              |            |           |                |                |                               | 240               |
| BC EAST          | alkalinity | 6/1/04 | 40.152       | 80.371        | Buffalo Creek-E Branch (mouth)      |            |           |                |                |                               | 220               |
| BC SOUTH         | alkalinity | 6/1/04 | 40.152       | 80.371        | Buffalo Creek -South Branch (mouth) |            |           |                |                |                               | 220               |
| BC MIDDLE        | alkalinity | 6/1/04 | 40.18        | 80.416        | Buffalo Creek-Covered Brdge.        |            |           |                |                |                               | 220               |
| BRUSH            | alkalinity | 6/1/04 | 40.196       | 80.448        | Brush Run (hump bridge)             |            |           |                |                |                               | 240               |
| BUCK             | alkalinity | 6/1/04 | 40.191       | 80.449        | Buck Run (near 231)                 |            |           |                |                |                               | 200               |
| LOWER DUTCH      | alkalinity | 6/1/04 | 40.184       | 80.486        | Lower D.Fork Creek (mouth)          |            |           |                |                |                               | 200               |