

## APPENDIX

The data presented in this Appendix are based on 72 samples taken during each month of a one year period from November, 1973 through October, 1974. During the first month two sets of 72 samples were taken. These two sample sets were averaged for the month to avoid a misinterpretation of the statistical analysis of the data. November, having two sampling periods, would have a larger influence on the average, for example, than each of the other months. The analysis of the samples was conducted by Buchart-Horn Consulting Engineers, using standard methods developed by the American Waterworks Association.

SAMPLE POINT NO. 1 HEADWATERS MAHANAY CREEK DISCHARGE

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| DATE     | ---FLOW--- |      |      | PH  | ---ACIDITY--- |        | ---ALKALINITY--- |        | TOTAL<br>CONC. | IRON--<br>LB/DAY | ---SULFATES--- |        |
|----------|------------|------|------|-----|---------------|--------|------------------|--------|----------------|------------------|----------------|--------|
|          | CFS        | GPM  | MGD  |     | CONC.         | LB/DAY | CONC.            | LB/DAY |                |                  | CONC.          | LB/DAY |
| 11/ 6/73 | 0.20       | 90.  | 0.13 | 3.2 | 162.0         | 175.   | 0.0              | 0.     | 1.52           | 2.               | 195.0          | 200.   |
| 12/11/73 | 0.91       | 408. | 0.59 | 3.4 | 132.0         | 648.   | 0.0              | 0.     | 1.20           | 6.               | 146.0          | 717.   |
| 1/ 9/74  | 0.45       | 202. | 0.29 | 3.5 | 118.0         | 286.   | 0.0              | 0.     | 1.68           | 4.               | 155.0          | 376.   |
| 2/ 5/74  | 0.60       | 269. | 0.39 | 3.6 | 110.0         | 356.   | 0.0              | 0.     | 1.68           | 5.               | 120.0          | 388.   |
| 3/ 5/74  | 0.45       | 202. | 0.29 | 3.5 | 96.0          | 233.   | 0.0              | 0.     | 1.68           | 4.               | 150.0          | 364.   |
| 4/ 3/74  | 0.45       | 202. | 0.29 | 3.5 | 140.0         | 340.   | 0.0              | 0.     | 1.12           | 3.               | 150.0          | 364.   |
| 5/ 8/74  | 0.14       | 63.  | 0.09 | 3.5 | 130.0         | 98.    | 0.0              | 0.     | 1.80           | 1.               | 225.0          | 170.   |
| 6/11/74  | 0.08       | 36.  | 0.05 | 3.5 | 118.0         | 51.    | 0.0              | 0.     | 2.10           | 1.               | 200.0          | 86.    |
| 7/ 9/74  | 0.36       | 162. | 0.23 | 3.5 | 400.0         | 777.   | 0.0              | 0.     | 2.10           | 4.               | 150.0          | 291.   |
| 8/13/74  | 0.14       | 63.  | 0.09 | 3.4 | 160.0         | 121.   | 0.0              | 0.     | 2.30           | 2.               | 325.0          | 245.   |
| 9/11/74  | 0.50       | 224. | 0.32 | 3.3 | 134.0         | 361.   | 0.0              | 0.     | 1.20           | 3.               | 300.0          | 809.   |
| 10/ 9/74 | 0.21       | 94.  | 0.14 | 3.3 | 300.0         | 340.   | 0.0              | 0.     | 1.70           | 2.               | 300.0          | 340.   |
| MINIMUM  | 0.08       | 36.  | 0.05 | 3.2 | 96.0          | 51.    | 0.0              | 0.     | 1.12           | 1.               | 120.0          | 86.    |
| MAXIMUM  | 0.91       | 408. | 0.59 | 3.6 | 400.0         | 777.   | 0.0              | 0.     | 2.30           | 6.               | 325.0          | 809.   |
| AVERAGE  | 0.37       | 168. | 0.24 | 3.4 | 166.7         | 315.   | 0.0              | 0.     | 1.67           | 3.               | 200.5          | 363.   |

SAMPLE POINT NO. 2 NORTH MAHANAY CREEK AT PARK PLACE

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| DATE     | ---FLOW--- |       |      | PH  | ---ACIDITY--- |        | ---ALKALINITY--- |        | TOTAL<br>CONC. | IRON--<br>LB/DAY | ---SULFATES--- |        |
|----------|------------|-------|------|-----|---------------|--------|------------------|--------|----------------|------------------|----------------|--------|
|          | CFS        | GPM   | MGD  |     | CONC.         | LB/DAY | CONC.            | LB/DAY |                |                  | CONC.          | LB/DAY |
| 11/ 6/73 | 2.09       | 938.  | 1.35 | 4.3 | 13.0          | 147.   | 0.0              | 0.     | 0.00           | 0.               | 6.0            | 68.    |
| 12/11/73 | 13.90      | 6239. | 3.98 | 4.7 | 6.0           | 450.   | 0.0              | 0.     | 0.15           | 11.              | 45.0           | 3374.  |
| 1/ 9/74  | 4.68       | 2101. | 3.02 | 4.7 | 4.0           | 101.   | 2.0              | 50.    | 0.15           | 4.               | 6.0            | 151.   |
| 2/ 5/74  | 2.35       | 1055. | 1.52 | 6.4 | 6.0           | 76.    | 4.0              | 51.    | 0.15           | 2.               | 3.0            | 101.   |
| 3/ 5/74  | 1.62       | 727.  | 1.05 | 5.2 | 4.0           | 35.    | 0.0              | 0.     | 0.44           | 4.               | 7.0            | 61.    |
| 4/ 3/74  | 2.65       | 1189. | 1.71 | 4.9 | 0.0           | 0.     | 4.0              | 57.    | 0.00           | 0.               | 30.0           | 429.   |
| 5/ 8/74  | 0.30       | 135.  | 0.19 | 4.8 | 2.0           | 3.     | 0.0              | 0.     | 0.00           | 0.               | 150.0          | 243.   |
| 6/11/74  | 0.15       | 67.   | 0.10 | 4.6 | 2.0           | 2.     | 0.0              | 0.     | 0.20           | 0.               | 4.0            | 3.     |
| 7/ 9/74  | 0.50       | 224.  | 0.32 | 4.6 | 16.0          | 43.    | 0.0              | 0.     | 0.00           | 0.               | 175.0          | 472.   |
| 8/13/74  | 0.40       | 180.  | 0.26 | 4.8 | 8.0           | 17.    | 0.0              | 0.     | 0.00           | 0.               | 275.0          | 593.   |
| 9/11/74  | 1.50       | 673.  | 0.97 | 5.2 | 10.0          | 81.    | 0.0              | 0.     | 0.30           | 2.               | 200.0          | 1618.  |
| 10/ 9/74 | 1.25       | 561.  | 0.81 | 4.8 | 4.0           | 27.    | 0.0              | 0.     | 0.20           | 1.               | 275.0          | 1854.  |
| MINIMUM  | 0.15       | 67.   | 0.10 | 4.3 | 0.0           | 0.     | 0.0              | 0.     | 0.00           | 0.               | 4.0            | 3.     |
| MAXIMUM  | 13.90      | 6239. | 3.98 | 6.4 | 16.0          | 450.   | 4.0              | 57.    | 0.44           | 11.              | 275.0          | 3374.  |
| AVERAGE  | 2.62       | 1174. | 1.69 | 4.9 | 6.3           | 82.    | 0.8              | 13.    | 0.13           | 2.               | 98.4           | 747.   |

SAMPLE POINT NO. 3 NORTH MAHANAY CREEK AT BOWMANS

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| DATE     | ---FLOW--- |       |       | PH  | ---ACIDITY--- |        | ---ALKALINITY--- |        | TOTAL<br>CONC. | IRON--<br>LB/DAY | ---SULFATES--- |        |
|----------|------------|-------|-------|-----|---------------|--------|------------------|--------|----------------|------------------|----------------|--------|
|          | CFS        | GPM   | MGD   |     | CONC.         | LB/DAY | CONC.            | LB/DAY |                |                  | CONC.          | LB/DAY |
| 11/ 6/73 | 8.60       | 3360. | 5.56  | 4.1 | 8.0           | 371.   | 0.0              | 0.     | 0.37           | 17.              | 22.0           | 1020.  |
| 12/11/73 | 21.70      | 9740. | 14.03 | 4.7 | 6.0           | 702.   | 0.0              | 0.     | 0.59           | 69.              | 56.0           | 6554.  |
| 1/ 9/74  | 12.80      | 5745. | 8.27  | 4.7 | 8.0           | 552.   | 2.0              | 138.   | 0.15           | 10.              | 9.0            | 621.   |
| 2/ 5/74  | 11.20      | 5027. | 7.24  | 4.9 | 4.0           | 242.   | 4.0              | 242.   | 0.59           | 36.              | 9.0            | 544.   |
| 3/ 5/74  | 4.80       | 2154. | 3.10  | 4.8 | 6.0           | 155.   | 0.0              | 0.     | 2.18           | 56.              | 6.0            | 155.   |
| 4/ 3/74  | 11.20      | 5027. | 7.24  | 4.8 | 6.0           | 362.   | 0.0              | 0.     | 0.48           | 29.              | 30.0           | 1812.  |
| 5/ 8/74  | 1.52       | 682.  | 0.98  | 4.2 | 10.0          | 82.    | 0.0              | 0.     | 0.80           | 7.               | 150.0          | 1230.  |
| 6/11/74  | 1.30       | 583.  | 0.84  | 4.2 | 8.0           | 56.    | 0.0              | 0.     | 0.20           | 1.               | 14.0           | 98.    |
| 7/ 9/74  | 3.10       | 1391. | 2.00  | 4.5 | 20.0          | 334.   | 0.0              | 0.     | 0.40           | 7.               | 175.0          | 2926.  |
| 8/13/74  | 1.20       | 539.  | 0.78  | 4.3 | 12.0          | 78.    | 0.0              | 0.     | 0.10           | 1.               | 250.0          | 1618.  |
| 9/11/74  | 2.96       | 1329. | 1.91  | 4.7 | 10.0          | 160.   | 0.0              | 0.     | 0.60           | 10.              | 200.0          | 3193.  |
| 10/ 9/74 | 1.60       | 718.  | 1.03  | 4.3 | 6.0           | 52.    | 0.0              | 0.     | 0.10           | 1.               | 250.0          | 2157.  |
| MINIMUM  | 1.20       | 539.  | 0.78  | 4.1 | 4.0           | 52.    | 0.0              | 0.     | 0.10           | 1.               | 6.0            | 98.    |
| MAXIMUM  | 21.70      | 9740. | 14.03 | 4.9 | 20.0          | 702.   | 4.0              | 242.   | 2.18           | 69.              | 250.0          | 6554.  |
| AVERAGE  | 6.83       | 3066. | 4.42  | 4.5 | 8.7           | 262.   | 0.5              | 32.    | 0.55           | 20.              | 97.6           | 1827.  |

SAMPLE POINT NO. 4 MAHANDY CITY BORE HOLE DISCHARGE  
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| DATE     | ---FLOW--- |        |       | PH  | ---ACIDITY--- |        | ---ALKALINITY--- |        | ---TOTAL IRON--<br>CONC. LB/DAY | ---SULFATES--- |        |        |
|----------|------------|--------|-------|-----|---------------|--------|------------------|--------|---------------------------------|----------------|--------|--------|
|          | CFS        | GPM    | MGD   |     | CONC.         | LB/DAY | CONC.            | LB/DAY |                                 | CONC.          | LB/DAY |        |
| 11/ 6/73 | 7.06       | 3169.  | 4.56  | 3.8 | 91.0          | 3465.  | 0.0              | 0.     | 17.45                           | 664.           | 180.0  | 6854.  |
| 12/11/73 | 27.00      | 12118. | 17.45 | 4.5 | 80.0          | 11650. | 0.0              | 0.     | 16.90                           | 2461.          | 350.0  | 50969. |
| 1/ 9/74  | 8.56       | 3842.  | 5.53  | 4.8 | 92.0          | 4248.  | 0.0              | 0.     | 8.37                            | 386.           | 204.0  | 9418.  |
| 2/ 5/74  | 17.70      | 7944.  | 11.44 | 4.9 | 102.0         | 9737.  | 0.0              | 0.     | 8.63                            | 824.           | 195.0  | 18616. |
| 3/ 5/74  | 14.60      | 6553.  | 9.44  | 4.7 | 74.0          | 5827.  | 0.0              | 0.     | 9.16                            | 721.           | 175.0  | 13780. |
| 4/ 3/74  | 8.45       | 3793.  | 5.46  | 4.7 | 80.0          | 3646.  | 0.0              | 0.     | 7.38                            | 336.           | 200.0  | 9115.  |
| 5/ 8/74  | 10.50      | 4713.  | 6.79  | 4.7 | 50.0          | 2832.  | 0.0              | 0.     | 8.40                            | 476.           | 225.0  | 12742. |
| 6/11/74  | 7.57       | 3398.  | 4.89  | 4.8 | 64.0          | 2613.  | 0.0              | 0.     | 8.90                            | 363.           | 175.0  | 7145.  |
| 7/ 9/74  | 5.98       | 2684.  | 3.86  | 4.6 | 600.0         | 19352. | 0.0              | 0.     | 10.50                           | 339.           | 170.0  | 5483.  |
| 8/13/74  | 6.93       | 3110.  | 4.48  | 4.5 | 88.0          | 3289.  | 0.0              | 0.     | 10.60                           | 396.           | 325.0  | 12148. |
| 9/11/74  | 14.40      | 6463.  | 9.31  | 4.9 | 60.0          | 4660.  | 0.0              | 0.     | 16.40                           | 1274.          | 225.0  | 17475. |
| 10/ 9/74 | 6.93       | 3110.  | 4.48  | 4.6 | 300.0         | 11213. | 0.0              | 0.     | 11.80                           | 441.           | 325.0  | 12148. |
| MINIMUM  | 5.98       | 2684.  | 3.86  | 3.8 | 50.0          | 2613.  | 0.0              | 0.     | 7.38                            | 336.           | 170.0  | 5483.  |
| MAXIMUM  | 27.00      | 12118. | 17.45 | 4.9 | 600.0         | 19352. | 0.0              | 0.     | 17.45                           | 2461.          | 350.0  | 50969. |
| AVERAGE  | 11.31      | 5075.  | 7.31  | 4.6 | 140.1         | 6878.  | 0.0              | 0.     | 11.21                           | 724.           | 229.1  | 14658. |

SAMPLE POINT NO. 5 MAHANDY CREEK AT FOOTBALL FIELD  
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| DATE     | ---FLOW--- |        |       | PH  | ---ACIDITY--- |        | ---ALKALINITY--- |        | ---TOTAL IRON--<br>CONC. LB/DAY | ---SULFATES--- |        |        |
|----------|------------|--------|-------|-----|---------------|--------|------------------|--------|---------------------------------|----------------|--------|--------|
|          | CFS        | GPM    | MGD   |     | CONC.         | LB/DAY | CONC.            | LB/DAY |                                 | CONC.          | LB/DAY |        |
| 11/ 6/73 | 17.40      | 7810.  | 11.25 | 4.3 | 28.0          | 2628.  | 0.0              | 0.     | 7.02                            | 659.           | 173.0  | 16236. |
| 12/11/73 | 59.10      | 26526. | 38.20 | 4.4 | 50.0          | 15938. | 0.0              | 0.     | 11.84                           | 3774.          | 110.0  | 35063. |
| 1/ 9/74  | 25.10      | 11266. | 16.22 | 4.8 | 62.0          | 8393.  | 0.0              | 0.     | 4.94                            | 669.           | 149.0  | 20171. |
| 2/ 5/74  | 31.90      | 14318. | 20.62 | 4.8 | 56.0          | 9635.  | 0.0              | 0.     | 4.94                            | 850.           | 135.0  | 23227. |
| 3/ 5/74  | 22.20      | 9964.  | 14.35 | 5.0 | 30.0          | 3592.  | 0.0              | 0.     | 5.57                            | 667.           | 125.0  | 14967. |
| 4/ 3/74  | 27.00      | 12118. | 17.45 | 4.9 | 42.0          | 6116.  | 0.0              | 0.     | 4.76                            | 693.           | 225.0  | 32766. |
| 5/ 8/74  | 12.30      | 5521.  | 7.95  | 5.0 | 40.0          | 2654.  | 0.0              | 0.     | 5.20                            | 345.           | 150.0  | 9951.  |
| 6/11/74  | 8.90       | 3995.  | 5.75  | 5.2 | 22.0          | 1056.  | 0.0              | 0.     | 5.10                            | 245.           | 149.0  | 7152.  |
| 7/ 9/74  | 9.30       | 4174.  | 6.01  | 4.8 | 72.0          | 3612.  | 0.0              | 0.     | 4.70                            | 236.           | 125.0  | 6270.  |
| 8/13/74  | 7.51       | 3371.  | 4.85  | 4.8 | 42.0          | 1701.  | 0.0              | 0.     | 5.20                            | 211.           | 225.0  | 9114.  |
| 9/11/74  | 15.60      | 7002.  | 10.08 | 4.6 | 52.0          | 4375.  | 0.0              | 0.     | 7.20                            | 606.           | 200.0  | 16828. |
| 10/ 9/74 | 8.87       | 3981.  | 5.73  | 4.8 | 30.0          | 1435.  | 0.0              | 0.     | 5.30                            | 254.           | 275.0  | 13156. |
| MINIMUM  | 7.51       | 3371.  | 4.85  | 4.3 | 22.0          | 1056.  | 0.0              | 0.     | 4.70                            | 211.           | 110.0  | 6270.  |
| MAXIMUM  | 59.10      | 26526. | 38.20 | 5.2 | 72.0          | 15938. | 0.0              | 0.     | 11.84                           | 3774.          | 275.0  | 35063. |
| AVERAGE  | 20.43      | 9170.  | 13.21 | 4.8 | 43.8          | 5095.  | 0.0              | 0.     | 5.98                            | 767.           | 170.1  | 17075. |

SAMPLE POINT NO. 6 WASTE HOUSE RUN  
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| DATE     | ---FLOW--- |       |      | PH  | ---ACIDITY--- |        | ---ALKALINITY--- |        | ---TOTAL IRON--<br>CONC. LB/DAY | ---SULFATES--- |        |       |
|----------|------------|-------|------|-----|---------------|--------|------------------|--------|---------------------------------|----------------|--------|-------|
|          | CFS        | GPM   | MGD  |     | CONC.         | LB/DAY | CONC.            | LB/DAY |                                 | CONC.          | LB/DAY |       |
| 11/ 6/73 | 4.55       | 2042. | 2.94 | 5.2 | 5.0           | 123.   | 1.0              | 25.    | 0.00                            | 0.             | 17.0   | 417.  |
| 12/11/73 | 15.30      | 6867. | 9.89 | 4.9 | 6.0           | 495.   | 2.0              | 165.   | 0.15                            | 12.            | 45.0   | 3713. |
| 1/ 9/74  | 4.37       | 1961. | 2.82 | 5.9 | 2.0           | 47.    | 4.0              | 94.    | 0.00                            | 0.             | 7.0    | 165.  |
| 2/ 5/74  | 10.60      | 4758. | 6.85 | 7.0 | 4.0           | 229.   | 8.0              | 457.   | 0.00                            | 0.             | 8.0    | 457.  |
| 3/ 5/74  | 2.24       | 1005. | 1.45 | 6.4 | 2.0           | 24.    | 2.0              | 24.    | 0.15                            | 2.             | 6.0    | 72.   |
| 4/ 3/74  | 7.48       | 3357. | 4.83 | 6.7 | 4.0           | 161.   | 0.0              | 0.     | 0.24                            | 10.            | 35.0   | 1412. |
| 5/ 8/74  | 1.81       | 812.  | 1.17 | 7.2 | 2.0           | 20.    | 0.0              | 0.     | 0.30                            | 3.             | 30.0   | 293.  |
| 6/11/74  | 1.32       | 592.  | 0.85 | 6.7 | 2.0           | 14.    | 0.0              | 0.     | 0.30                            | 2.             | 6.0    | 43.   |
| 7/ 9/74  | 2.63       | 1180. | 1.70 | 6.9 | 12.0          | 170.   | 0.0              | 0.     | 0.10                            | 1.             | 30.0   | 426.  |
| 8/13/74  | 0.87       | 390.  | 0.56 | 7.7 | 4.0           | 19.    | 0.0              | 0.     | 0.00                            | 0.             | 250.0  | 1173. |
| 9/11/74  | 1.95       | 875.  | 1.26 | 7.7 | 8.0           | 84.    | 6.0              | 63.    | 0.00                            | 0.             | 175.0  | 1841. |
| 10/ 9/74 | 1.50       | 673.  | 0.97 | 6.7 | 8.0           | 65.    | 0.0              | 0.     | 0.00                            | 0.             | 225.0  | 1820. |
| MINIMUM  | 0.87       | 390.  | 0.56 | 4.9 | 2.0           | 14.    | 0.0              | 0.     | 0.00                            | 0.             | 6.0    | 43.   |
| MAXIMUM  | 15.30      | 6867. | 9.89 | 7.7 | 12.0          | 495.   | 8.0              | 457.   | 0.30                            | 12.            | 250.0  | 3713. |
| AVERAGE  | 4.55       | 2043. | 2.94 | 6.6 | 4.9           | 121.   | 1.9              | 69.    | 0.10                            | 3.             | 69.5   | 986.  |

SAMPLE POINT NO. 7 GILBERTON SHAFT DISCHARGE  
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| DATE     | ---FLOW---                  |        |       | PH  | ---ACIDITY--- |        | ---ALKALINITY--- |        | CONC. | LB/DAY | ---SULFATES--- |         |
|----------|-----------------------------|--------|-------|-----|---------------|--------|------------------|--------|-------|--------|----------------|---------|
|          | CFS                         | GPM    | MGD   |     | CONC.         | LB/DAY | CONC.            | LB/DAY |       |        | CONC.          | LB/DAY  |
| 11/ 6/73 | 22.30                       | 10009. | 14.41 | 5.9 | 105.0         | 12629. | 46.0             | 5533.  | 57.32 | 6894.  | 762.0          | 91650.  |
| 12/13/73 | 22.30                       | 10009. | 14.41 | 6.2 | 18.0          | 2165.  | 22.0             | 2646.  | 37.90 | 4558.  | 825.0          | 99228.  |
| 1/ 9/74  | 22.30                       | 10009. | 14.41 | 6.4 | 120.0         | 14433. | 74.0             | 8900.  | 42.26 | 5083.  | 1550.0         | 186428. |
| 2/ 8/74  | 22.30                       | 10009. | 14.41 | 6.4 | 118.0         | 14193. | 152.0            | 18282. | 85.05 | 10229. | 650.0          | 78179.  |
| 3/ 5/74  | 22.30                       | 10009. | 14.41 | 6.4 | 200.0         | 24055. | 126.0            | 15155. | 71.60 | 8612.  | 550.0          | 66152.  |
| 4/ 3/74  | 22.30                       | 10009. | 14.41 | 6.3 | 130.0         | 15636. | 100.0            | 12028. | 50.40 | 6062.  | 750.0          | 90207.  |
| 5/ 8/74  | 22.30                       | 10009. | 14.41 | 6.3 | 96.0          | 11546. | 0.0              | 0.     | 61.20 | 7361.  | 575.0          | 69159.  |
| 6/13/74  | FLOW NOT DETERMINED/NOWATER |        |       |     | SAMPLE TAKEN  |        |                  |        |       |        |                |         |
|          |                             |        |       |     | 0.0           | 0.     | 0.0              | 0.     | 0.00  | 0.     | 0.0            | 0.      |
| 7/ 9/74  | FLOW NOT DETERMINED/NOWATER |        |       |     | SAMPLE TAKEN  |        |                  |        |       |        |                |         |
|          |                             |        |       |     | 0.0           | 0.     | 0.0              | 0.     | 0.00  | 0.     | 0.0            | 0.      |
| 8/13/74  | 22.30                       | 10009. | 14.41 | 6.1 | 100.0         | 12028. | 32.0             | 3849.  | 54.60 | 6567.  | 950.0          | 114262. |
| 9/11/74  | 22.30                       | 10009. | 14.41 | 6.5 | 188.0         | 22612. | 26.0             | 3127.  | 73.20 | 8804.  | 1150.0         | 138317. |
| 10/ 9/74 | FLOW NOT DETERMINED/NOWATER |        |       |     | SAMPLE TAKEN  |        |                  |        |       |        |                |         |
|          |                             |        |       |     | 0.0           | 0.     | 0.0              | 0.     | 0.00  | 0.     | 0.0            | 0.      |
| MINIMUM  | 0.00                        | 0.     | 0.00  | 0.0 | 0.0           | 0.     | 0.0              | 0.     | 0.00  | 0.     | 0.0            | 0.      |
| MAXIMUM  | 22.30                       | 10009. | 14.41 | 6.5 | 200.0         | 24055. | 152.0            | 18282. | 85.05 | 10229. | 1550.0         | 186428. |
| AVERAGE  | 16.72                       | 7507.  | 10.81 | 6.3 | 119.4         | 14366. | 64.2             | 7724.  | 59.28 | 7130.  | 862.4          | 103731. |

SAMPLE PCINT NO. 81 MAHANCY CREEK ABOVE GILBERTON SHAFT  
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| DATE     | ---FLOW--- |        |       | PH  | ---ACIDITY--- |        | ---ALKALINITY--- |        | CONC. | LB/DAY | ---SULFATES--- |        |
|----------|------------|--------|-------|-----|---------------|--------|------------------|--------|-------|--------|----------------|--------|
|          | CFS        | GPM    | MGD   |     | CONC.         | LB/DAY | CONC.            | LB/DAY |       |        | CONC.          | LB/DAY |
| 11/ 6/73 | 17.72      | 7953.  | 11.45 | 4.1 | 47.0          | 4492.  | 0.0              | 0.     | 8.30  | 793.   | 183.0          | 17490. |
| 12/13/73 | 54.30      | 24372. | 35.10 | 4.2 | 88.0          | 25772. | 0.0              | 0.     | 20.59 | 6030.  | 190.0          | 55645. |
| 1/ 9/74  | 22.80      | 10233. | 14.74 | 4.7 | 94.0          | 11559. | 0.0              | 0.     | 8.63  | 1061.  | 255.0          | 31358. |
| 2/ 8/74  | 37.20      | 16697. | 24.04 | 4.7 | 70.0          | 14045. | 0.0              | 0.     | 7.61  | 1527.  | 135.0          | 27086. |
| 3/ 5/74  | 22.20      | 9964.  | 14.35 | 4.7 | 70.0          | 8382.  | 0.0              | 0.     | 6.44  | 771.   | 100.0          | 11974. |
| 4/ 3/74  | 39.10      | 17549. | 25.27 | 4.9 | 40.0          | 8435.  | 0.0              | 0.     | 3.10  | 654.   | 175.0          | 36905. |
| 5/ 8/74  | 9.38       | 4210.  | 6.06  | 4.6 | 58.0          | 2934.  | 0.0              | 0.     | 3.90  | 197.   | 150.0          | 7589.  |
| 6/13/74  | 10.20      | 4578.  | 6.59  | 4.5 | 42.0          | 2311.  | 0.0              | 0.     | 3.70  | 204.   | 150.0          | 8252.  |
| 7/ 9/74  | 9.64       | 4327.  | 6.23  | 4.4 | 58.0          | 3016.  | 0.0              | 0.     | 2.20  | 114.   | 115.0          | 5979.  |
| 8/13/74  | 7.85       | 3523.  | 5.07  | 4.4 | 58.0          | 2456.  | 0.0              | 0.     | 2.70  | 114.   | 250.0          | 10585. |
| 9/11/74  | 15.30      | 6867.  | 9.89  | 4.3 | 52.0          | 4291.  | 0.0              | 0.     | 4.80  | 396.   | 275.0          | 22693. |
| 10/ 9/74 | 10.70      | 4803.  | 6.92  | 4.0 | 40.0          | 2308.  | 0.0              | 0.     | 3.90  | 225.   | 275.0          | 15870. |
| MINIMUM  | 7.85       | 3523.  | 5.07  | 4.0 | 40.0          | 2308.  | 0.0              | 0.     | 2.20  | 114.   | 100.0          | 5979.  |
| MAXIMUM  | 54.30      | 24372. | 35.10 | 4.9 | 94.0          | 25772. | 0.0              | 0.     | 20.59 | 6030.  | 275.0          | 55645. |
| AVERAGE  | 21.37      | 9590.  | 13.81 | 4.5 | 59.8          | 7500.  | 0.0              | 0.     | 6.32  | 1007.  | 187.8          | 20952. |

SAMPLE POINT NO. 82 MAHANCY CREEK BELOW GILBERTON SHAFT  
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| DATE     | ---FLOW--- |        |       | PH  | ---ACIDITY--- |        | ---ALKALINITY--- |        | CONC. | LB/DAY | ---SULFATES--- |         |
|----------|------------|--------|-------|-----|---------------|--------|------------------|--------|-------|--------|----------------|---------|
|          | CFS        | GPM    | MGD   |     | CONC.         | LB/DAY | CONC.            | LB/DAY |       |        | CONC.          | LB/DAY  |
| 11/ 6/73 | 41.10      | 18447. | 26.56 | 5.7 | 117.0         | 25936. | 36.0             | 7980.  | 44.37 | 9836.  | 665.0          | 147413. |
| 12/13/73 | 76.60      | 34381. | 49.51 | 5.8 | 56.0          | 23136. | 0.0              | 0.     | 28.71 | 11861. | 550.0          | 227230. |
| 1/ 9/74  | 45.10      | 20242. | 29.15 | 6.3 | 118.0         | 28703. | 4.0              | 973.   | 44.35 | 10788. | 950.0          | 231086. |
| 2/ 8/74  | 59.27      | 25602. | 33.31 | 6.2 | 50.0          | 15984. | 64.0             | 20459. | 38.06 | 12167. | 505.0          | 161436. |
| 3/ 5/74  | 44.50      | 19973. | 28.76 | 6.3 | 98.0          | 23521. | 30.0             | 7200.  | 36.85 | 8844.  | 325.0          | 78004.  |
| 4/ 3/74  | 61.40      | 27558. | 39.68 | 6.3 | 90.0          | 29805. | 20.0             | 6623.  | 31.43 | 10408. | 350.0          | 115907. |
| 5/ 8/74  | 31.70      | 14228. | 20.49 | 6.3 | 76.0          | 12994. | 10.0             | 1710.  | 49.20 | 8412.  | 475.0          | 81213.  |
| 6/13/74  | 10.20      | 4578.  | 6.59  | 4.5 | 42.0          | 2311.  | 0.0              | 0.     | 3.70  | 204.   | 150.0          | 8252.   |
| 7/ 9/74  | 9.64       | 4327.  | 6.23  | 4.4 | 58.0          | 3016.  | 0.0              | 0.     | 2.20  | 114.   | 115.0          | 5979.   |
| 8/13/74  | 7.85       | 3523.  | 5.07  | 4.4 | 58.0          | 2456.  | 0.0              | 0.     | 2.70  | 114.   | 250.0          | 10585.  |
| 9/11/74  | 37.60      | 16876. | 24.30 | 6.5 | 48.0          | 9734.  | 0.0              | 0.     | 53.50 | 10850. | 800.0          | 162238. |
| 10/ 9/74 | 10.70      | 4803.  | 6.92  | 4.0 | 40.0          | 2308.  | 0.0              | 0.     | 3.90  | 225.   | 275.0          | 15870.  |
| MINIMUM  | 7.85       | 3523.  | 5.07  | 4.0 | 40.0          | 2308.  | 0.0              | 0.     | 2.20  | 114.   | 115.0          | 5979.   |
| MAXIMUM  | 76.60      | 34331. | 49.51 | 6.5 | 118.0         | 29805. | 64.0             | 20459. | 53.50 | 12167. | 950.0          | 231086. |
| AVERAGE  | 36.30      | 16295. | 23.46 | 5.6 | 70.9          | 14992. | 13.7             | 3745.  | 28.25 | 6985.  | 450.8          | 103768. |

SAMPLE POINT NO. 9 MAHANCY CREEK BELOW MAHANCY PLANE

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| DATE     | ---FLOW--- |        |       | PH  | ---ACIDITY--- |        | ---ALKALINITY--- |        | TOTAL<br>CONC. | IRON<br>LB/DAY | ---SULFATES--- |         |
|----------|------------|--------|-------|-----|---------------|--------|------------------|--------|----------------|----------------|----------------|---------|
|          | CFS        | GPM    | MGD   |     | CONC.         | LB/DAY | CONC.            | LB/DAY |                |                | CONC.          | LB/DAY  |
| 11/ 6/73 | 52.30      | 23474. | 33.80 | 5.2 | 43.0          | 12130. | 1.0              | 282.   | 42.83          | 12082.         | 685.0          | 193226. |
| 12/11/73 | 71.90      | 32271. | 46.47 | 6.1 | 60.0          | 23268. | 0.0              | 0.     | 24.80          | 9617.          | 445.0          | 172569. |
| 1/ 8/74  | 55.60      | 24955. | 35.94 | 6.6 | 78.0          | 23391. | 0.0              | 0.     | 46.18          | 13848.         | 700.0          | 209916. |
| 2/ 5/74  | 63.70      | 28591. | 41.17 | 6.9 | 38.0          | 13056. | 18.0             | 6184.  | 33.34          | 11455.         | 695.0          | 238780. |
| 3/ 4/74  | 51.10      | 22935. | 33.03 | 6.8 | 50.0          | 13780. | 0.0              | 0.     | 41.83          | 11529.         | 450.0          | 124024. |
| 4/ 3/74  | 79.90      | 35862. | 51.64 | 6.8 | 44.0          | 18962. | 16.0             | 6895.  | 28.33          | 12209.         | 400.0          | 172377. |
| 5/ 8/74  | 59.20      | 26571. | 38.26 | 7.0 | 62.0          | 19756. | 0.0              | 0.     | 44.70          | 14273.         | 675.0          | 215526. |
| 6/11/74  | 14.10      | 6329.  | 9.11  | 6.6 | 14.0          | 1065.  | 2.0              | 152.   | 3.10           | 236.           | 110.0          | 8365.   |
| 7/ 9/74  | 16.50      | 7406.  | 10.66 | 6.6 | 60.0          | 5340.  | 0.0              | 0.     | 35.60          | 3168.          | 750.0          | 66745.  |
| 8/12/74  | 8.32       | 3734.  | 5.38  | 5.6 | 40.0          | 1795.  | 0.0              | 0.     | 1.80           | 81.            | 225.0          | 10097.  |
| 9/11/74  | 36.40      | 16338. | 23.53 | 6.8 | 60.0          | 11779. | 0.0              | 0.     | 38.60          | 7578.          | 800.0          | 157060. |
| 10/ 8/74 | 11.80      | 5296.  | 7.63  | 4.6 | 32.0          | 2037.  | 0.0              | 0.     | 3.10           | 197.           | 275.0          | 17502.  |
| MINIMUM  | 8.32       | 3734.  | 5.38  | 4.6 | 14.0          | 1065.  | 0.0              | 0.     | 1.80           | 81.            | 110.0          | 8365.   |
| MAXIMUM  | 79.90      | 35862. | 51.64 | 7.0 | 78.0          | 23391. | 18.0             | 6895.  | 46.18          | 14273.         | 800.0          | 238780. |
| AVERAGE  | 43.40      | 19480. | 28.05 | 6.3 | 48.4          | 12200. | 3.1              | 1126.  | 28.63          | 8023.          | 517.5          | 132182. |

SAMPLE POINT NO. 10 GIRARDVILLE NO. 1 DISCHARGE

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| DATE     | ---FLOW--- |       |      | PH  | ---ACIDITY--- |        | ---ALKALINITY--- |        | TOTAL<br>CONC. | IRON<br>LB/DAY | ---SULFATES--- |        |
|----------|------------|-------|------|-----|---------------|--------|------------------|--------|----------------|----------------|----------------|--------|
|          | CFS        | GPM   | MGD  |     | CONC.         | LB/DAY | CONC.            | LB/DAY |                |                | CONC.          | LB/DAY |
| 11/ 6/73 | 1.57       | 705.  | 1.01 | 5.8 | 80.0          | 677.   | 45.0             | 381.   | 24.96          | 211.           | 565.0          | 4784.  |
| 12/11/73 | 4.26       | 1912. | 2.75 | 5.6 | 88.0          | 2022.  | 38.0             | 873.   | 24.06          | 553.           | 600.0          | 13786. |
| 1/ 8/74  | 3.86       | 1732. | 2.49 | 6.0 | 114.0         | 2373.  | 34.0             | 708.   | 28.37          | 591.           | 490.0          | 10201. |
| 2/ 5/74  | 4.52       | 2029. | 2.92 | 6.2 | 60.0          | 1463.  | 74.0             | 1804.  | 25.73          | 627.           | 505.0          | 12311. |
| 3/ 4/74  | 3.78       | 1697. | 2.44 | 6.1 | 80.0          | 1631.  | 76.0             | 1549.  | 24.70          | 504.           | 350.0          | 7136.  |
| 4/ 3/74  | 3.98       | 1786. | 2.57 | 6.0 | 135.0         | 2898.  | 64.0             | 1374.  | 23.33          | 501.           | 350.0          | 7513.  |
| 5/ 8/74  | 1.96       | 880.  | 1.27 | 6.2 | 74.0          | 782.   | 46.0             | 486.   | 26.60          | 281.           | 300.0          | 3171.  |
| 6/11/74  | 2.48       | 1113. | 1.60 | 6.5 | 28.0          | 375.   | 52.0             | 696.   | 25.60          | 342.           | 275.0          | 3678.  |
| 7/ 9/74  | 2.78       | 1248. | 1.80 | 6.3 | 60.0          | 900.   | 22.0             | 330.   | 26.70          | 400.           | 480.0          | 7197.  |
| 8/12/74  | 2.03       | 911.  | 1.31 | 6.0 | 80.0          | 876.   | 64.0             | 701.   | 24.00          | 263.           | 450.0          | 4927.  |
| 9/11/74  | 3.34       | 1499. | 2.16 | 6.1 | 82.0          | 1477.  | 40.0             | 721.   | 27.40          | 494.           | 600.0          | 10809. |
| 10/ 8/74 | 2.48       | 1113. | 1.60 | 4.6 | 10.0          | 134.   | 44.0             | 589.   | 22.60          | 302.           | 625.0          | 8360.  |
| MINIMUM  | 1.57       | 705.  | 1.01 | 4.6 | 10.0          | 134.   | 22.0             | 330.   | 22.60          | 211.           | 275.0          | 3171.  |
| MAXIMUM  | 4.52       | 2029. | 2.92 | 6.5 | 135.0         | 2898.  | 76.0             | 1804.  | 28.37          | 627.           | 625.0          | 13786. |
| AVERAGE  | 3.09       | 1385. | 1.99 | 5.9 | 74.3          | 1301.  | 49.9             | 851.   | 25.34          | 422.           | 465.8          | 7823.  |

SAMPLE POINT NO. 11 GIRARDVILLE NO. 2 DISCHARGE

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| DATE     | ---FLOW--- |      |      | PH  | ---ACIDITY--- |        | ---ALKALINITY--- |        | TOTAL<br>CONC. | IRON<br>LB/DAY | ---SULFATES--- |        |
|----------|------------|------|------|-----|---------------|--------|------------------|--------|----------------|----------------|----------------|--------|
|          | CFS        | GPM  | MGD  |     | CONC.         | LB/DAY | CONC.            | LB/DAY |                |                | CONC.          | LB/DAY |
| 11/ 6/73 | 0.83       | 373. | 0.54 | 6.1 | 50.0          | 224.   | 37.0             | 166.   | 25.99          | 116.           | 425.0          | 1903.  |
| 12/11/73 | 1.34       | 601. | 0.87 | 5.9 | 18.0          | 130.   | 40.0             | 289.   | 23.96          | 173.           | 680.0          | 4915.  |
| 1/ 8/74  | 0.74       | 332. | 0.48 | 6.3 | 64.0          | 255.   | 48.0             | 192.   | 14.74          | 59.            | 410.0          | 1636.  |
| 2/ 5/74  | 1.40       | 628. | 0.90 | 6.5 | 14.0          | 106.   | 68.0             | 513.   | 19.44          | 147.           | 445.0          | 3360.  |
| 3/ 4/74  | 1.08       | 485. | 0.70 | 6.4 | 66.0          | 384.   | 60.0             | 350.   | 15.20          | 89.            | 300.0          | 1748.  |
| 4/ 3/74  | 1.22       | 548. | 0.79 | 6.4 | 84.0          | 553.   | 68.0             | 447.   | 15.24          | 100.           | 350.0          | 2303.  |
| 5/ 8/74  | 0.84       | 377. | 0.54 | 6.9 | 38.0          | 172.   | 46.0             | 208.   | 18.40          | 83.            | 350.0          | 1586.  |
| 6/11/74  | 0.96       | 431. | 0.62 | 6.5 | 30.0          | 155.   | 44.0             | 228.   | 19.00          | 98.            | 225.0          | 1165.  |
| 7/ 9/74  | 0.62       | 278. | 0.40 | 6.5 | 62.0          | 207.   | 40.0             | 134.   | 18.60          | 62.            | 410.0          | 1371.  |
| 8/12/74  | 0.68       | 305. | 0.44 | 5.6 | 80.0          | 293.   | 62.0             | 227.   | 17.50          | 64.            | 475.0          | 1742.  |
| 9/11/74  | 1.11       | 493. | 0.72 | 6.5 | 28.0          | 168.   | 40.0             | 239.   | 18.40          | 110.           | 600.0          | 3592.  |
| 10/ 8/74 | 0.81       | 364. | 0.52 | 6.2 | 6.0           | 26.    | 30.0             | 131.   | 17.70          | 77.            | 475.0          | 2075.  |
| MINIMUM  | 0.62       | 278. | 0.40 | 5.9 | 6.0           | 26.    | 30.0             | 131.   | 14.74          | 59.            | 225.0          | 1165.  |
| MAXIMUM  | 1.40       | 628. | 0.90 | 6.9 | 84.0          | 553.   | 68.0             | 513.   | 25.99          | 173.           | 680.0          | 4915.  |
| AVERAGE  | 0.97       | 435. | 0.63 | 6.4 | 45.0          | 223.   | 48.6             | 260.   | 18.68          | 98.            | 428.8          | 2283.  |

SAMPLE PCINT NO. 12 GIRARDVILLE NO. 3 DISCHARGE

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| DATE     | -----FLOW----- |      |      | PH  | ----ACIDITY---- |        | ---ALKALINITY--- |        | TOTAL<br>CONC. | IRON--<br>LB/DAY | ---SULFATES--- |        |
|----------|----------------|------|------|-----|-----------------|--------|------------------|--------|----------------|------------------|----------------|--------|
|          | CFS            | GPM  | MGD  |     | CONC.           | LB/DAY | CONC.            | LB/DAY |                |                  | CONC.          | LB/DAY |
| 11/ 6/73 | 0.44           | 197. | 0.28 | 5.8 | 34.0            | 81.    | 8.0              | 19.    | 20.11          | 48.              | 270.0          | 641.   |
| 12/11/73 | 0.42           | 189. | 0.27 | 5.2 | 64.0            | 145.   | 8.0              | 18.    | 23.96          | 54.              | 405.0          | 917.   |
| 1/ 8/74  | 0.39           | 175. | 0.25 | 5.9 | 90.0            | 189.   | 14.0             | 29.    | 14.35          | 30.              | 325.0          | 684.   |
| 2/ 5/74  | 0.42           | 189. | 0.27 | 5.9 | 54.0            | 122.   | 36.0             | 82.    | 18.37          | 42.              | 380.0          | 861.   |
| 3/ 4/74  | 0.42           | 189. | 0.27 | 6.0 | 98.0            | 222.   | 40.0             | 91.    | 15.15          | 34.              | 275.0          | 623.   |
| 4/ 3/74  | 0.42           | 189. | 0.27 | 5.8 | 80.0            | 181.   | 24.0             | 54.    | 10.48          | 24.              | 225.0          | 510.   |
| 5/ 8/74  | 0.51           | 229. | 0.33 | 6.1 | 42.0            | 116.   | 16.0             | 44.    | 12.50          | 34.              | 225.0          | 619.   |
| 6/10/74  | 0.39           | 175. | 0.25 | 6.3 | 120.0           | 252.   | 30.0             | 63.    | 13.10          | 28.              | 225.0          | 473.   |
| 7/ 8/74  | 0.42           | 189. | 0.27 | 6.3 | 36.0            | 82.    | 20.0             | 45.    | 14.80          | 34.              | 335.0          | 759.   |
| 8/12/74  | 0.42           | 189. | 0.27 | 6.0 | 60.0            | 136.   | 28.0             | 63.    | 12.40          | 28.              | 350.0          | 793.   |
| 9/10/74  | 0.49           | 220. | 0.32 | 6.5 | 38.0            | 100.   | 16.0             | 42.    | 18.30          | 48.              | 375.0          | 991.   |
| 10/ 8/74 | 0.42           | 189. | 0.27 | 5.6 | 6.0             | 14.    | 28.0             | 63.    | 13.10          | 30.              | 500.0          | 1133.  |
| MINIMUM  | 0.39           | 175. | 0.25 | 5.2 | 6.0             | 14.    | 8.0              | 18.    | 10.48          | 24.              | 225.0          | 473.   |
| MAXIMUM  | 0.51           | 229. | 0.33 | 6.5 | 120.0           | 252.   | 40.0             | 91.    | 23.96          | 54.              | 500.0          | 1133.  |
| AVERAGE  | 0.43           | 193. | 0.28 | 5.9 | 60.2            | 137.   | 22.3             | 51.    | 15.55          | 36.              | 324.2          | 750.   |

SAMPLE PCINT NO. 13 GIRARDVILLE NO. 4 DISCHARGE

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| DATE     | -----FLOW----- |     |      | PH  | ----ACIDITY---- |        | ---ALKALINITY--- |        | TOTAL<br>CONC. | IRON--<br>LB/DAY | ---SULFATES--- |        |
|----------|----------------|-----|------|-----|-----------------|--------|------------------|--------|----------------|------------------|----------------|--------|
|          | CFS            | GPM | MGD  |     | CONC.           | LB/DAY | CONC.            | LB/DAY |                |                  | CONC.          | LB/DAY |
| 11/ 6/73 | 0.06           | 27. | 0.04 | 3.4 | 50.0            | 16.    | 0.0              | 0.     | 12.74          | 4.               | 425.0          | 138.   |
| 12/11/73 | 0.08           | 35. | 0.05 | 3.2 | 70.0            | 30.    | 0.0              | 0.     | 13.96          | 6.               | 476.0          | 205.   |
| 1/ 8/74  | 0.11           | 49. | 0.07 | 4.1 | 88.0            | 52.    | 0.0              | 0.     | 12.86          | 8.               | 420.0          | 249.   |
| 2/ 4/74  | 0.11           | 49. | 0.07 | 3.4 | 86.0            | 51.    | 0.0              | 0.     | 16.44          | 10.              | 325.0          | 193.   |
| 3/ 4/74  | 0.11           | 49. | 0.07 | 3.9 | 60.0            | 36.    | 0.0              | 0.     | 13.96          | 8.               | 225.0          | 133.   |
| 4/ 2/74  | 0.11           | 49. | 0.07 | 4.0 | 94.0            | 56.    | 0.0              | 0.     | 8.81           | 5.               | 200.0          | 119.   |
| 5/ 8/74  | 0.11           | 49. | 0.07 | 3.8 | 70.0            | 42.    | 0.0              | 0.     | 6.40           | 4.               | 175.0          | 104.   |
| 6/10/74  | 0.11           | 49. | 0.07 | 3.7 | 70.0            | 42.    | 0.0              | 0.     | 8.20           | 5.               | 225.0          | 133.   |
| 7/ 8/74  | 0.06           | 27. | 0.04 | 3.8 | 400.0           | 129.   | 0.0              | 0.     | 10.40          | 3.               | 375.0          | 121.   |
| 8/12/74  | 0.06           | 27. | 0.04 | 3.9 | 70.0            | 23.    | 0.0              | 0.     | 7.90           | 3.               | 350.0          | 113.   |
| 9/10/74  | 0.09           | 40. | 0.06 | 3.7 | 72.0            | 35.    | 0.0              | 0.     | 8.60           | 4.               | 425.0          | 206.   |
| 10/ 8/74 | 0.10           | 45. | 0.06 | 3.5 | 62.0            | 33.    | 0.0              | 0.     | 8.20           | 4.               | 600.0          | 324.   |
| MINIMUM  | 0.06           | 27. | 0.04 | 3.2 | 50.0            | 16.    | 0.0              | 0.     | 6.40           | 3.               | 175.0          | 104.   |
| MAXIMUM  | 0.11           | 49. | 0.07 | 4.1 | 400.0           | 129.   | 0.0              | 0.     | 16.44          | 10.              | 600.0          | 324.   |
| AVERAGE  | 0.09           | 42. | 0.06 | 3.7 | 99.3            | 45.    | 0.0              | 0.     | 10.71          | 5.               | 351.8          | 170.   |

SAMPLE PCINT NO. 14 MAHANDY CREEK BELOW GIRARDVILLE DISCHARGES

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| DATE     | -----FLOW----- |        |       | PH  | ----ACIDITY---- |        | ---ALKALINITY--- |        | TOTAL<br>CONC. | IRON--<br>LB/DAY | ---SULFATES--- |         |
|----------|----------------|--------|-------|-----|-----------------|--------|------------------|--------|----------------|------------------|----------------|---------|
|          | CFS            | GPM    | MGD   |     | CONC.           | LB/DAY | CONC.            | LB/DAY |                |                  | CONC.          | LB/DAY  |
| 11/ 6/73 | 52.40          | 23519. | 33.87 | 5.5 | 47.0            | 13283. | 1.0              | 283.   | 38.05          | 10754.           | 765.0          | 216205. |
| 12/11/73 | 92.00          | 41293. | 59.46 | 6.1 | 26.0            | 12901. | 0.0              | 0.     | 23.84          | 11830.           | 440.0          | 218330. |
| 1/ 8/74  | 63.00          | 28276. | 40.72 | 6.4 | 64.0            | 21747. | 0.0              | 0.     | 38.37          | 13038.           | 685.0          | 232758. |
| 2/ 5/74  | 66.70          | 29937. | 43.11 | 6.9 | 68.0            | 24463. | 22.0             | 7914.  | 31.08          | 11181.           | 400.0          | 143900. |
| 3/ 4/74  | 59.70          | 26795. | 38.59 | 6.7 | 40.0            | 12880. | 0.0              | 0.     | 31.08          | 10008.           | 450.0          | 144897. |
| 4/ 2/74  | 87.20          | 39138. | 56.36 | 6.5 | 36.0            | 16931. | 12.0             | 5644.  | 8.81           | 4143.            | 175.0          | 82305.  |
| 5/ 8/74  | 68.90          | 30925. | 44.53 | 6.9 | 52.0            | 19324. | 0.0              | 0.     | 42.40          | 15756.           | 475.0          | 176517. |
| 6/10/74  | 56.50          | 25359. | 36.52 | 6.8 | 52.0            | 15846. | 0.0              | 0.     | 43.30          | 13195.           | 425.0          | 129512. |
| 7/ 9/74  | 25.30          | 11355. | 16.35 | 6.5 | 52.0            | 7096.  | 0.0              | 0.     | 6.50           | 887.             | 225.0          | 30703.  |
| 8/12/74  | 12.20          | 5476.  | 7.89  | 6.5 | 38.0            | 2500.  | 8.0              | 526.   | 7.70           | 507.             | 300.0          | 19740.  |
| 9/10/74  | 35.10          | 15754. | 22.69 | 6.8 | 40.0            | 7573.  | 0.0              | 0.     | 6.30           | 1193.            | 175.0          | 33130.  |
| 10/ 8/74 | 19.50          | 8752.  | 12.60 | 5.8 | 40.0            | 4207.  | 0.0              | 0.     | 7.50           | 789.             | 325.0          | 34182.  |
| MINIMUM  | 12.20          | 5476.  | 7.89  | 5.5 | 26.0            | 2500.  | 0.0              | 0.     | 6.30           | 507.             | 175.0          | 19740.  |
| MAXIMUM  | 92.00          | 41293. | 59.46 | 6.9 | 68.0            | 24463. | 22.0             | 7914.  | 43.30          | 15756.           | 765.0          | 232758. |
| AVERAGE  | 53.21          | 23882. | 34.39 | 6.4 | 46.3            | 13229. | 3.6              | 1197.  | 23.74          | 7773.            | 403.3          | 121848. |

SAMPLE PCINT NO. 15 PACKER NO. 5A DISCHARGE

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| DATE     | ---FLOW--- |        |       | PH  | ---ACIDITY--- |        | ---ALKALINITY--- |        | TOTAL<br>CONC. | IRON<br>LB/DAY | ---SULFATES--- |         |
|----------|------------|--------|-------|-----|---------------|--------|------------------|--------|----------------|----------------|----------------|---------|
|          | CFS        | GPM    | MGD   |     | CONC.         | LB/DAY | CONC.            | LB/DAY |                |                | CONC.          | LB/DAY  |
| 11/ 6/73 | 10.20      | 4578.  | 6.59  | 6.5 | 60.0          | 3301.  | 186.0            | 10233. | 27.91          | 1535.          | 1065.0         | 5859.0  |
| 12/11/73 | 11.40      | 5117.  | 7.37  | 6.1 | 88.0          | 5411.  | 200.0            | 12297. | 26.13          | 1607.          | 1300.0         | 7993.2  |
| 1/ 8/74  | 11.40      | 5117.  | 7.37  | 6.3 | 132.0         | 8116.  | 246.0            | 15126. | 34.69          | 2133.          | 1325.0         | 8146.9  |
| 2/ 5/74  | 25.40      | 11400. | 16.42 | 6.3 | 136.0         | 18631. | 260.0            | 35619. | 31.08          | 4258.          | 850.0          | 11644.6 |
| 3/ 5/74  | 27.30      | 12253. | 17.64 | 6.4 | 80.0          | 11779. | 282.0            | 41523. | 36.85          | 5426.          | 425.0          | 6257.8  |
| 4/ 3/74  | 25.40      | 11400. | 16.42 | 6.3 | 144.0         | 19727. | 274.0            | 37537. | 26.67          | 3654.          | 1050.0         | 14384.6 |
| 5/ 7/74  | 25.40      | 11400. | 16.42 | 6.3 | 100.0         | 13700. | 222.0            | 30413. | 29.10          | 3987.          | 950.0          | 13014.6 |
| 6/10/74  | 20.30      | 9111.  | 13.12 | 6.2 | 180.0         | 19708. | 230.0            | 25182. | 29.70          | 3252.          | 1075.0         | 11770.0 |
| 7/ 9/74  | 18.60      | 8348.  | 12.02 | 6.3 | 108.0         | 10835. | 230.0            | 23074. | 28.70          | 2879.          | 1350.0         | 13543.2 |
| 8/12/74  | 17.80      | 7989.  | 11.50 | 6.3 | 66.0          | 6336.  | 258.0            | 24769. | 28.50          | 2736.          | 1275.0         | 12240.6 |
| 9/11/74  | 17.80      | 7989.  | 11.50 | 6.4 | 76.0          | 7296.  | 116.0            | 11137. | 36.40          | 3495.          | 1475.0         | 14160.7 |
| 10/ 8/74 | 16.50      | 7406.  | 10.66 | 6.2 | 142.0         | 12637. | 182.0            | 16197. | 27.60          | 2456.          | 300.0          | 2669.8  |
| MINIMUM  | 10.20      | 4578.  | 6.59  | 6.1 | 60.0          | 3301.  | 116.0            | 10233. | 26.13          | 1535.          | 300.0          | 2669.8  |
| MAXIMUM  | 27.30      | 12253. | 17.64 | 6.5 | 180.0         | 19727. | 282.0            | 41523. | 36.85          | 5426.          | 1475.0         | 14384.6 |
| AVERAGE  | 19.96      | 8509.  | 12.25 | 6.3 | 109.3         | 11456. | 223.8            | 23592. | 30.28          | 3118.          | 1036.7         | 10140.4 |

SAMPLE PCINT NO. 16 PACKER NO. 5B DISCHARGE

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| DATE     | ---FLOW--- |        |       | PH  | ---ACIDITY--- |        | ---ALKALINITY--- |        | TOTAL<br>CONC. | IRON<br>LB/DAY | ---SULFATES--- |         |
|----------|------------|--------|-------|-----|---------------|--------|------------------|--------|----------------|----------------|----------------|---------|
|          | CFS        | GPM    | MGD   |     | CONC.         | LB/DAY | CONC.            | LB/DAY |                |                | CONC.          | LB/DAY  |
| 11/ 6/73 | 15.40      | 6912.  | 9.95  | 6.4 | 75.0          | 6230.  | 179.0            | 14868. | 30.92          | 2568.          | 1125.0         | 9344.3  |
| 12/11/73 | 38.10      | 17101. | 24.62 | 6.1 | 0.0           | 0.     | 184.0            | 37811. | 28.56          | 5869.          | 1375.0         | 28255.4 |
| 1/ 8/74  | 38.10      | 17101. | 24.62 | 6.4 | 180.0         | 36589. | 214.0            | 43976. | 39.69          | 8156.          | 1050.0         | 21576.8 |
| 2/ 4/74  | 24.10      | 10817. | 15.58 | 6.3 | 170.0         | 22097. | 240.0            | 31196. | 29.99          | 3898.          | 1075.0         | 13973.3 |
| 3/ 4/74  | 19.20      | 8618.  | 12.41 | 6.3 | 114.0         | 11805. | 244.0            | 25268. | 33.34          | 3453.          | 1075.0         | 11132.3 |
| 4/ 2/74  | 12.10      | 5431.  | 7.82  | 6.3 | 110.0         | 7179.  | 222.0            | 14488. | 28.33          | 1849.          | 1350.0         | 8810.3  |
| 5/ 7/74  | 13.60      | 6104.  | 8.79  | 6.3 | 112.0         | 8215.  | 232.0            | 17018. | 30.10          | 2208.          | 925.0          | 6785.1  |
| 6/10/74  | 11.20      | 5027.  | 7.24  | 6.2 | 112.0         | 6766.  | 222.0            | 13410. | 30.70          | 1855.          | 950.0          | 5738.7  |
| 7/ 8/74  | 23.40      | 10503. | 15.12 | 6.3 | 140.0         | 17669. | 210.0            | 26504. | 31.10          | 3925.          | 1300.0         | 16407.1 |
| 8/12/74  | 31.70      | 14228. | 20.49 | 6.3 | 42.0          | 7181.  | 226.0            | 38640. | 29.10          | 4975.          | 1450.0         | 12240.6 |
| 9/10/74  | 19.70      | 8842.  | 12.73 | 6.4 | 40.0          | 4250.  | 210.0            | 22313. | 38.40          | 4080.          | 1525.0         | 16203.5 |
| 10/ 8/74 | 23.30      | 10458. | 15.06 | 6.2 | 130.0         | 16337. | 128.0            | 16086. | 29.20          | 3670.          | 1525.0         | 20421.3 |
| MINIMUM  | 11.20      | 5027.  | 7.24  | 6.1 | 0.0           | 0.     | 128.0            | 13410. | 28.33          | 1849.          | 925.0          | 5738.7  |
| MAXIMUM  | 38.10      | 17101. | 24.62 | 6.4 | 180.0         | 36989. | 244.0            | 43976. | 39.69          | 8156.          | 1625.0         | 28255.4 |
| AVERAGE  | 22.49      | 10095. | 14.54 | 6.3 | 102.1         | 12060. | 209.3            | 25131. | 31.62          | 3875.          | 1235.4         | 15286.6 |

SAMPLE PCINT NO. 17 CONFLUENCE OF SHENANDOAH AND MAHANY CREEKS

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| DATE     | ---FLOW--- |        |       | PH  | ---ACIDITY--- |        | ---ALKALINITY--- |        | TOTAL<br>CONC. | IRON<br>LB/DAY | ---SULFATES--- |         |
|----------|------------|--------|-------|-----|---------------|--------|------------------|--------|----------------|----------------|----------------|---------|
|          | CFS        | GPM    | MGD   |     | CONC.         | LB/DAY | CONC.            | LB/DAY |                |                | CONC.          | LB/DAY  |
| 11/ 6/73 | 66.30      | 29758. | 42.85 | 5.5 | 60.0          | 21455. | 1.0              | 358.   | 30.61          | 10946.         | 580.0          | 20740.3 |
| 12/10/73 | 120.00     | 53860. | 77.56 | 5.9 | 62.0          | 40128. | 2.0              | 1294.  | 26.92          | 17423.         | 550.0          | 35597.3 |
| 1/ 8/74  | 102.00     | 45781. | 65.92 | 6.4 | 64.0          | 35209. | 8.0              | 4401.  | 39.69          | 21835.         | 690.0          | 37959.7 |
| 2/ 4/74  | 110.00     | 49372. | 71.10 | 6.3 | 52.0          | 30851. | 0.0              | 0.     | 26.78          | 15888.         | 350.0          | 20765.1 |
| 3/ 4/74  | 98.50      | 44210. | 63.66 | 6.6 | 44.0          | 23376. | 0.0              | 0.     | 24.70          | 13122.         | 425.0          | 22578.7 |
| 4/ 2/74  | 120.00     | 53860. | 77.56 | 6.0 | 54.0          | 34950. | 16.0             | 10356. | 13.10          | 8479.          | 400.0          | 25889.0 |
| 5/ 7/74  | 113.00     | 50718. | 73.03 | 6.3 | 36.0          | 21941. | 30.0             | 18284. | 21.40          | 13043.         | 575.0          | 35044.5 |
| 6/10/74  | 78.60      | 35278. | 50.80 | 6.5 | 62.0          | 26284. | 24.0             | 10174. | 29.80          | 12633.         | 600.0          | 25435.9 |
| 7/ 8/74  | 63.60      | 28546. | 41.11 | 6.7 | 84.0          | 28814. | 0.0              | 0.     | 35.60          | 12212.         | 800.0          | 27442.3 |
| 8/12/74  | 25.90      | 11625. | 16.74 | 6.7 | 50.0          | 6985.  | 60.0             | 8382.  | 11.20          | 1565.          | 550.0          | 7683.1  |
| 9/10/74  | 42.60      | 19120. | 27.53 | 7.1 | 34.0          | 7812.  | 2.0              | 460.   | 7.50           | 1723.          | 400.0          | 9190.6  |
| 10/ 8/74 | 43.10      | 19345. | 27.86 | 4.8 | 88.0          | 20457. | 0.0              | 0.     | 13.90          | 3231.          | 950.0          | 22083.8 |
| MINIMUM  | 25.90      | 11625. | 16.74 | 4.8 | 34.0          | 6985.  | 0.0              | 0.     | 7.50           | 1565.          | 350.0          | 7683.1  |
| MAXIMUM  | 120.00     | 53860. | 77.56 | 7.1 | 88.0          | 40128. | 60.0             | 18284. | 39.69          | 21835.         | 950.0          | 37959.7 |
| AVERAGE  | 81.97      | 36789. | 52.98 | 6.2 | 57.5          | 24855. | 11.9             | 4476.  | 23.43          | 11008.         | 572.5          | 24200.8 |

SAMPLE POINT NO. 18 MAHANDY CREEK BELOW PACKERS

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| DATE     | -----FLOW----- |        |        | PH  | ----ACIDITY---- |        | ---ALKALINITY--- |        | TOTAL<br>CONC. | IRON--<br>LB/DAY | ---SULFATES--- |         |
|----------|----------------|--------|--------|-----|-----------------|--------|------------------|--------|----------------|------------------|----------------|---------|
|          | CFS            | GPM    | MGD    |     | CONC.           | LB/DAY | CONC.            | LB/DAY |                |                  | CONC.          | LB/DAY  |
| 11/ 6/73 | 92.10          | 41338. | 59.53  | 6.1 | 60.0            | 29205. | 30.0             | 14902. | 30.99          | 15394.           | 725.0          | 360140. |
| 12/10/73 | 130.00         | 58348. | 84.02  | 6.0 | 18.0            | 12621. | 34.0             | 23839. | 26.92          | 18875.           | 745.0          | 522364. |
| 1/ 8/74  | 140.00         | 62837. | 90.48  | 6.4 | 88.0            | 66448. | 66.0             | 49836. | 34.74          | 26232.           | 1050.0         | 792850. |
| 2/ 4/74  | 163.00         | 73160. | 105.35 | 6.2 | 80.0            | 70332. | 78.0             | 68573. | 31.08          | 27324.           | 400.0          | 351658. |
| 3/ 4/74  | 150.00         | 67325. | 96.95  | 6.5 | 116.0           | 93848. | 52.0             | 42070. | 21.73          | 17580.           | 800.0          | 647224. |
| 4/ 2/74  | 140.00         | 62837. | 90.48  | 6.3 | 90.0            | 67959. | 76.0             | 57387. | 20.00          | 15102.           | 600.0          | 453057. |
| 5/ 7/74  | 108.00         | 48474. | 69.80  | 6.5 | 50.0            | 29125. | 144.0            | 83880. | 26.60          | 15495.           | 1000.0         | 582502. |
| 6/10/74  | 119.00         | 53411. | 76.91  | 6.3 | 102.0           | 65467. | 104.0            | 66750. | 31.80          | 20410.           | 650.0          | 417190. |
| 7/ 8/74  | 113.00         | 50718. | 73.03  | 6.5 | 54.0            | 32911. | 44.0             | 26817. | 33.00          | 20112.           | 1025.0         | 624706. |
| 8/12/74  | 66.50          | 29847. | 42.98  | 6.4 | 78.0            | 27976. | 164.0            | 58822. | 23.30          | 8357.            | 1125.0         | 403504. |
| 9/10/74  | 87.80          | 39408. | 56.75  | 6.5 | 40.0            | 18942. | 74.0             | 35043. | 28.40          | 13449.           | 950.0          | 449875. |
| 10/ 8/74 | 84.00          | 37702. | 54.29  | 6.1 | 80.0            | 36245. | 30.0             | 13592. | 21.70          | 9831.            | 1300.0         | 588974. |
| MINIMUM  | 66.50          | 29847. | 42.98  | 6.0 | 18.0            | 12621. | 30.0             | 13592. | 20.00          | 8357.            | 400.0          | 351658. |
| MAXIMUM  | 163.00         | 73160. | 105.35 | 6.5 | 116.0           | 93848. | 164.0            | 83880. | 34.74          | 27324.           | 1300.0         | 792850. |
| AVERAGE  | 116.12         | 52117. | 75.05  | 6.3 | 71.3            | 45973. | 74.7             | 45126. | 27.52          | 17347.           | 864.2          | 516170. |

SAMPLE POINT NO. 19 SHENANDOAH CREEK IN SHENANDOAH

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| DATE     | -----FLOW----- |       |      | PH  | ----ACIDITY---- |        | ---ALKALINITY--- |        | TOTAL<br>CONC. | IRON--<br>LB/DAY | ---SULFATES--- |         |
|----------|----------------|-------|------|-----|-----------------|--------|------------------|--------|----------------|------------------|----------------|---------|
|          | CFS            | GPM   | MGD  |     | CONC.           | LB/DAY | CONC.            | LB/DAY |                |                  | CONC.          | LB/DAY  |
| 11/ 6/73 | 6.99           | 3137. | 4.52 | 4.6 | 223.0           | 8407.  | 2.0              | 75.    | 36.44          | 1374.            | 650.0          | 24506.  |
| 12/11/73 | 4.20           | 1885. | 2.71 | 4.3 | 220.0           | 4984.  | 0.0              | 0.     | 29.39          | 666.             | 800.0          | 18122.  |
| 1/ 9/74  | 4.20           | 1885. | 2.71 | 4.9 | 170.0           | 3851.  | 0.0              | 0.     | 29.86          | 676.             | 675.0          | 15291.  |
| 2/ 5/74  | 3.36           | 1508. | 2.17 | 5.1 | 120.0           | 2175.  | 8.0              | 145.   | 31.85          | 577.             | 625.0          | 11326.  |
| 3/ 5/74  | 6.04           | 2711. | 3.90 | 4.8 | 202.0           | 6581.  | 0.0              | 0.     | 7.86           | 256.             | 550.0          | 17917.  |
| 4/ 3/74  | 12.80          | 5745. | 8.27 | 3.8 | 170.0           | 11736. | 0.0              | 0.     | 10.48          | 724.             | 725.0          | 50052.  |
| 5/ 8/74  | 14.60          | 6553. | 9.44 | 4.0 | 186.0           | 14647. | 0.0              | 0.     | 10.60          | 835.             | 825.0          | 64965.  |
| 6/11/74  | 1.47           | 660.  | 0.95 | 7.0 | 40.0            | 317.   | 74.0             | 587.   | 1.10           | 9.               | 150.0          | 1189.   |
| 7/ 9/74  | 6.13           | 2751. | 3.96 | 4.3 | 266.0           | 8795.  | 0.0              | 0.     | 22.30          | 737.             | 1200.0         | 39675.  |
| 8/13/74  | 1.08           | 485.  | 0.70 | 7.5 | 92.0            | 536.   | 272.0            | 1584.  | 1.90           | 11.              | 275.0          | 1602.   |
| 9/11/74  | 0.90           | 404.  | 0.58 | 7.1 | 50.0            | 243.   | 60.0             | 291.   | 14.00          | 68.              | 200.0          | 971.    |
| 10/ 8/74 | 13.80          | 6194. | 8.92 | 4.3 | 182.0           | 13546. | 0.0              | 0.     | 23.00          | 1712.            | 1550.0         | 115368. |
| MINIMUM  | 0.90           | 404.  | 0.58 | 3.8 | 40.0            | 243.   | 0.0              | 0.     | 1.10           | 9.               | 150.0          | 971.    |
| MAXIMUM  | 14.60          | 6553. | 9.44 | 7.5 | 266.0           | 14647. | 272.0            | 1584.  | 36.44          | 1712.            | 1550.0         | 115368. |
| AVERAGE  | 6.30           | 2827. | 4.07 | 5.1 | 160.1           | 6318.  | 34.7             | 224.   | 18.23          | 637.             | 685.4          | 30082.  |

SAMPLE POINT NO. 20 SHENANDOAH CREEK BELOW SHENANDOAH

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| DATE     | -----FLOW----- |        |       | PH  | ----ACIDITY---- |        | ---ALKALINITY--- |        | TOTAL<br>CONC. | IRON--<br>LB/DAY | ---SULFATES--- |         |
|----------|----------------|--------|-------|-----|-----------------|--------|------------------|--------|----------------|------------------|----------------|---------|
|          | CFS            | GPM    | MGD   |     | CONC.           | LB/DAY | CONC.            | LB/DAY |                |                  | CONC.          | LB/DAY  |
| 11/ 6/73 | 12.90          | 5790.  | 8.34  | 3.9 | 252.0           | 17533. | 0.0              | 0.     | 40.31          | 2805.            | 900.0          | 62619.  |
| 12/11/73 | 16.10          | 7226.  | 10.41 | 3.6 | 222.0           | 19278. | 0.0              | 0.     | 28.56          | 2480.            | 850.0          | 73811.  |
| 1/ 9/74  | 12.80          | 5745.  | 8.27  | 5.0 | 166.0           | 11460. | 0.0              | 0.     | 38.37          | 2649.            | 380.0          | 60753.  |
| 2/ 5/74  | 13.00          | 5835.  | 8.40  | 5.0 | 190.0           | 13322. | 8.0              | 561.   | 23.71          | 1662.            | 625.0          | 43822.  |
| 3/ 5/74  | 15.20          | 6822.  | 9.82  | 4.5 | 142.0           | 11641. | 0.0              | 0.     | 133.88         | 10976.           | 425.0          | 34842.  |
| 4/ 3/74  | 18.00          | 8079.  | 11.63 | 4.1 | 130.0           | 12621. | 0.0              | 0.     | 23.57          | 2288.            | 1025.0         | 99511.  |
| 5/ 8/74  | 26.30          | 11804. | 17.00 | 4.2 | 200.0           | 28370. | 0.0              | 0.     | 13.00          | 1844.            | 675.0          | 95749.  |
| 6/11/74  | 11.60          | 5206.  | 7.50  | 4.9 | 134.0           | 8384.  | 0.0              | 0.     | 76.90          | 4811.            | 350.0          | 21898.  |
| 7/ 9/74  | 17.40          | 7810.  | 11.25 | 4.4 | 196.0           | 18394. | 0.0              | 0.     | 19.90          | 1868.            | 850.0          | 79770.  |
| 8/13/74  | 8.13           | 3649.  | 5.25  | 6.7 | 82.0            | 3596.  | 0.0              | 0.     | 17.80          | 781.             | 575.0          | 25213.  |
| 9/11/74  | 6.98           | 3133.  | 4.51  | 4.9 | 112.0           | 4216.  | 0.0              | 0.     | 16.20          | 610.             | 725.0          | 27294.  |
| 10/ 9/74 | 14.80          | 6643.  | 9.57  | 3.9 | 202.0           | 16125. | 0.0              | 0.     | 20.50          | 1636.            | 1700.0         | 135701. |
| MINIMUM  | 6.98           | 3133.  | 4.51  | 3.6 | 82.0            | 3596.  | 0.0              | 0.     | 13.00          | 610.             | 350.0          | 21898.  |
| MAXIMUM  | 26.30          | 11804. | 17.00 | 6.7 | 252.0           | 28370. | 8.0              | 561.   | 37.72          | 2867.            | 1700.0         | 135701. |
| AVERAGE  | 14.43          | 6479.  | 9.33  | 4.6 | 169.0           | 13745. | 0.7              | 47.    | 37.72          | 2867.            | 798.3          | 63415.  |



SAMPLE PCINT NO. 21 LOST CREEK DISCHARGE

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| DATE     | ---FLOW--- |      |      | PH  | ---ACIDITY--- |        | ---ALKALINITY--- |        | ---TOTAL IRON--- |        | ---SULFATES--- |        |
|----------|------------|------|------|-----|---------------|--------|------------------|--------|------------------|--------|----------------|--------|
|          | CFS        | GPM  | MGD  |     | CONC.         | LB/DAY | CONC.            | LB/DAY | CONC.            | LB/DAY | CONC.          | LB/DAY |
| 11/ 6/73 | 0.05       | 22.  | 0.03 | 4.0 | 25.0          | 7.     | 0.0              | 0.     | 0.29             | 0.     | 63.0           | 17.    |
| 12/11/73 | 0.55       | 247. | 0.36 | 3.6 | 44.0          | 131.   | 0.0              | 0.     | 0.44             | 1.     | 60.0           | 178.   |
| 1/ 9/74  | 0.16       | 72.  | 0.10 | 4.3 | 18.0          | 16.    | 0.0              | 0.     | 0.59             | 1.     | 63.0           | 54.    |
| 2/ 5/74  | 0.38       | 171. | 0.25 | 4.1 | 28.0          | 57.    | 0.0              | 0.     | 0.74             | 2.     | 56.0           | 115.   |
| 3/ 5/74  | 0.31       | 139. | 0.20 | 4.3 | 20.0          | 33.    | 0.0              | 0.     | 0.59             | 1.     | 225.0          | 376.   |
| 4/ 3/74  | 1.10       | 494. | 0.71 | 3.2 | 26.0          | 154.   | 0.0              | 0.     | 0.71             | 4.     | 225.0          | 1335.  |
| 5/ 8/74  | 0.15       | 67.  | 0.10 | 4.1 | 18.0          | 15.    | 0.0              | 0.     | 0.50             | 0.     | 150.0          | 121.   |
| 6/11/74  | 0.01       | 4.   | 0.01 | 4.2 | 14.0          | 1.     | 0.0              | 0.     | 0.40             | 0.     | 57.0           | 3.     |
| 7/ 9/74  | 0.04       | 18.  | 0.03 | 4.4 | 20.0          | 4.     | 0.0              | 0.     | 0.30             | 0.     | 350.0          | 76.    |
| 8/13/74  | 0.03       | 13.  | 0.02 | 4.3 | 20.0          | 3.     | 0.0              | 0.     | 0.70             | 0.     | 225.0          | 36.    |
| 9/11/74  | 0.02       | 9.   | 0.01 | 4.2 | 22.0          | 2.     | 0.0              | 0.     | 0.10             | 0.     | 175.0          | 19.    |
| 10/ 9/74 | 0.02       | 9.   | 0.01 | 3.8 | 20.0          | 2.     | 0.0              | 0.     | 0.30             | 0.     | 275.0          | 30.    |
| MINIMUM  | 0.01       | 4.   | 0.01 | 3.2 | 14.0          | 1.     | 0.0              | 0.     | 0.10             | 0.     | 56.0           | 3.     |
| MAXIMUM  | 1.10       | 494. | 0.71 | 4.4 | 44.0          | 154.   | 0.0              | 0.     | 0.74             | 4.     | 350.0          | 1335.  |
| AVERAGE  | 0.23       | 105. | 0.15 | 4.0 | 22.9          | 35.    | 0.0              | 0.     | 0.47             | 1.     | 160.3          | 197.   |

SAMPLE PCINT NO. 22 LOST CREEK

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| DATE     | ---FLOW--- |       |      | PH  | ---ACIDITY--- |        | ---ALKALINITY--- |        | ---TOTAL IRON--- |        | ---SULFATES--- |        |
|----------|------------|-------|------|-----|---------------|--------|------------------|--------|------------------|--------|----------------|--------|
|          | CFS        | GPM   | MGD  |     | CONC.         | LB/DAY | CONC.            | LB/DAY | CONC.            | LB/DAY | CONC.          | LB/DAY |
| 11/ 6/73 | 0.29       | 130.  | 0.19 | 5.7 | 5.0           | 8.     | 8.0              | 13.    | 0.15             | 0.     | 30.0           | 47.    |
| 12/11/73 | 1.32       | 592.  | 0.85 | 5.4 | 8.0           | 57.    | 2.0              | 14.    | 0.00             | 0.     | 35.0           | 249.   |
| 1/ 9/74  | 0.63       | 283.  | 0.41 | 5.7 | 2.0           | 7.     | 4.0              | 14.    | 0.15             | 1.     | 11.0           | 37.    |
| 2/ 5/74  | 1.03       | 462.  | 0.67 | 6.7 | 4.0           | 22.    | 10.0             | 56.    | 0.15             | 1.     | 9.0            | 50.    |
| 3/ 5/74  | 0.70       | 314.  | 0.45 | 6.4 | 6.0           | 23.    | 22.0             | 83.    | 0.44             | 2.     | 150.0          | 566.   |
| 4/ 3/74  | 2.36       | 1059. | 1.53 | 5.4 | 6.0           | 76.    | 10.0             | 127.   | 0.24             | 3.     | 30.0           | 382.   |
| 5/ 8/74  | 0.85       | 382.  | 0.55 | 7.0 | 2.0           | 9.     | 10.0             | 46.    | 0.00             | 0.     | 30.0           | 138.   |
| 6/11/74  | 0.10       | 45.   | 0.06 | 6.7 | 4.0           | 2.     | 14.0             | 8.     | 0.30             | 0.     | 13.0           | 7.     |
| 7/ 9/74  | 0.15       | 67.   | 0.10 | 7.0 | 8.0           | 6.     | 2.0              | 2.     | 0.10             | 0.     | 300.0          | 243.   |
| 8/13/74  | 0.15       | 67.   | 0.10 | 7.5 | 6.0           | 5.     | 14.0             | 11.    | 0.00             | 0.     | 175.0          | 142.   |
| 9/11/74  | 0.15       | 67.   | 0.10 | 7.5 | 8.0           | 6.     | 10.0             | 8.     | 0.30             | 0.     | 14.0           | 11.    |
| 10/ 9/74 | 0.16       | 72.   | 0.10 | 6.4 | 8.0           | 7.     | 0.0              | 0.     | 0.00             | 0.     | 225.0          | 194.   |
| MINIMUM  | 0.10       | 45.   | 0.06 | 5.4 | 2.0           | 2.     | 0.0              | 0.     | 0.00             | 0.     | 9.0            | 7.     |
| MAXIMUM  | 2.36       | 1059. | 1.53 | 7.5 | 8.0           | 76.    | 22.0             | 127.   | 0.44             | 3.     | 300.0          | 566.   |
| AVERAGE  | 0.66       | 295.  | 0.42 | 6.4 | 5.6           | 19.    | 8.8              | 32.    | 0.15             | 1.     | 85.2           | 172.   |

SAMPLE PCINT NO. 23 LOST CREEK BALL FIELD DISCHARGE

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| DATE     | ---FLOW---                   |       |      | PH  | ---ACIDITY--- |        | ---ALKALINITY--- |        | ---TOTAL IRON--- |        | ---SULFATES--- |        |
|----------|------------------------------|-------|------|-----|---------------|--------|------------------|--------|------------------|--------|----------------|--------|
|          | CFS                          | GPM   | MGD  |     | CONC.         | LB/DAY | CONC.            | LB/DAY | CONC.            | LB/DAY | CONC.          | LB/DAY |
| 11/ 6/73 | FLOW NOT DETERMINED/NO WATER |       |      |     | SAMPLE TAKEN  |        | 0.0              | 0.     | 0.00             | 0.     | 0.0            | 0.     |
| 12/11/73 | FLOW NOT DETERMINED/NO WATER |       |      |     | SAMPLE TAKEN  |        | 0.0              | 0.     | 0.00             | 0.     | 0.0            | 0.     |
| 1/ 8/74  | 2.81                         | 1261. | 1.82 | 6.4 | 48.0          | 727.   | 84.0             | 1273.  | 19.44            | 295.   | 1100.0         | 16671. |
| 2/ 5/74  | 0.99                         | 444.  | 0.64 | 6.6 | 58.0          | 310.   | 104.0            | 555.   | 31.85            | 170.   | 850.0          | 4539.  |
| 3/ 5/74  | 1.31                         | 588.  | 0.85 | 6.5 | 150.0         | 1060.  | 134.0            | 947.   | 21.73            | 154.   | 725.0          | 5123.  |
| 4/ 3/74  | 1.95                         | 875.  | 1.26 | 6.1 | 46.0          | 484.   | 112.0            | 1178.  | 19.76            | 208.   | 950.0          | 9992.  |
| 5/ 8/74  | 1.36                         | 610.  | 0.88 | 6.4 | 30.0          | 220.   | 136.0            | 998.   | 21.60            | 158.   | 900.0          | 6602.  |
| 6/11/74  | 1.76                         | 790.  | 1.14 | 6.3 | 44.0          | 418.   | 116.0            | 1101.  | 20.50            | 195.   | 825.0          | 7831.  |
| 7/ 9/74  | 1.20                         | 539.  | 0.78 | 6.3 | 40.0          | 259.   | 72.0             | 466.   | 15.90            | 103.   | 1150.0         | 7443.  |
| 8/13/74  | FLOW NOT DETERMINED/NO WATER |       |      |     | SAMPLE TAKEN  |        | 0.0              | 0.     | 0.00             | 0.     | 0.0            | 0.     |
| 9/11/74  | FLOW NOT DETERMINED/NO WATER |       |      |     | SAMPLE TAKEN  |        | 0.0              | 0.     | 0.00             | 0.     | 0.0            | 0.     |
| 10/ 9/74 | FLOW NOT DETERMINED/NO WATER |       |      |     | SAMPLE TAKEN  |        | 0.0              | 0.     | 0.00             | 0.     | 0.0            | 0.     |
| MINIMUM  | 0.00                         | 0.    | 0.00 | 0.0 | 0.0           | 0.     | 0.0              | 0.     | 0.00             | 0.     | 0.0            | 0.     |
| MAXIMUM  | 2.81                         | 1261. | 1.82 | 6.6 | 150.0         | 1060.  | 136.0            | 1273.  | 31.85            | 295.   | 1150.0         | 16671. |
| AVERAGE  | 0.95                         | 426.  | 0.61 | 6.4 | 59.4          | 497.   | 108.3            | 931.   | 21.54            | 183.   | 928.6          | 8314.  |

SAMPLE PCINT NO. 24 SHENANDOAH CREEK AT LOST CREEK  
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| DATE     | ---FLOW--- |        |       | PH  | ---ACIDITY--- |         | ---ALKALINITY--- |        | TOTAL IRON--<br>CONC. LB/DAY | ---SULFATES--- |        |         |
|----------|------------|--------|-------|-----|---------------|---------|------------------|--------|------------------------------|----------------|--------|---------|
|          | CFS        | GPM    | MGD   |     | CONC.         | LB/DAY  | CONC.            | LB/DAY |                              | CONC.          | LB/DAY |         |
| 11/ 6/73 | 19.00      | 8528.  | 12.28 | 3.8 | 242.0         | 24799.  | 0.0              | 0.     | 54.50                        | 5585.          | 825.0  | 84544.  |
| 12/11/73 | 18.20      | 8169.  | 11.76 | 4.2 | 1040.0        | 102089. | 0.0              | 0.     | 24.59                        | 2414.          | 1025.0 | 100616. |
| 1/ 8/74  | 14.20      | 6373.  | 9.18  | 4.7 | 300.0         | 22976.  | 0.0              | 0.     | 41.27                        | 3161.          | 1050.0 | 80418.  |
| 2/ 5/74  | 12.80      | 5745.  | 8.27  | 5.0 | 190.0         | 13117.  | 0.0              | 0.     | 6.44                         | 445.           | 600.0  | 41422.  |
| 3/ 5/74  | 15.30      | 6867.  | 9.89  | 4.7 | 152.0         | 12543.  | 0.0              | 0.     | 80.48                        | 6641.          | 550.0  | 45387.  |
| 4/ 3/74  | 21.00      | 9425.  | 13.57 | 3.9 | 164.0         | 18575.  | 0.0              | 0.     | 28.33                        | 3209.          | 825.0  | 93443.  |
| 5/ 8/74  | 28.50      | 12792. | 18.42 | 4.5 | 230.0         | 35355.  | 0.0              | 0.     | 17.40                        | 2675.          | 850.0  | 130658. |
| 6/11/74  | 10.10      | 4533.  | 6.53  | 6.2 | 44.0          | 2397.   | 0.0              | 0.     | 26.60                        | 1449.          | 275.0  | 14981.  |
| 7/ 9/74  | 17.80      | 7989.  | 11.50 | 4.6 | 148.0         | 14209.  | 0.0              | 0.     | 20.70                        | 1987.          | 1100.0 | 105605. |
| 8/13/74  | 9.06       | 4066.  | 5.86  | 6.8 | 100.0         | 4887.   | 126.0            | 6157.  | 12.80                        | 625.           | 500.0  | 24433.  |
| 9/11/74  | 6.42       | 2882.  | 4.15  | 4.9 | 72.0          | 2493.   | 0.0              | 0.     | 18.70                        | 648.           | 800.0  | 27701.  |
| 10/ 9/74 | 14.90      | 6688.  | 9.63  | 4.1 | 230.0         | 18484.  | 0.0              | 0.     | 21.30                        | 1712.          | 1300.0 | 104473. |
| MINIMUM  | 6.42       | 2882.  | 4.15  | 3.8 | 44.0          | 2397.   | 0.0              | 0.     | 6.44                         | 445.           | 275.0  | 14981.  |
| MAXIMUM  | 28.50      | 12792. | 18.42 | 6.8 | 1040.0        | 102089. | 126.0            | 6157.  | 80.48                        | 6641.          | 1300.0 | 130658. |
| AVERAGE  | 15.61      | 7005.  | 10.09 | 4.8 | 242.7         | 22660.  | 10.5             | 513.   | 29.43                        | 2546.          | 808.3  | 71140.  |

SAMPLE POINT NO. 25 HAMMOND BORE HOLE DISCHARGE  
 =====

| DATE     | ---FLOW--- |       |      | PH  | ---ACIDITY--- |        | ---ALKALINITY--- |        | TOTAL IRON--<br>CONC. LB/DAY | ---SULFATES--- |        |        |
|----------|------------|-------|------|-----|---------------|--------|------------------|--------|------------------------------|----------------|--------|--------|
|          | CFS        | GPM   | MGD  |     | CONC.         | LB/DAY | CONC.            | LB/DAY |                              | CONC.          | LB/DAY |        |
| 11/ 6/73 | 4.22       | 1894. | 2.73 | 6.0 | 130.0         | 2959.  | 171.0            | 3892.  | 48.60                        | 1106.          | 1100.0 | 25037. |
| 12/11/73 | 3.80       | 1706. | 2.46 | 6.0 | 66.0          | 1353.  | 198.0            | 4058.  | 33.87                        | 694.           | 650.0  | 13322. |
| 1/ 9/74  | 4.94       | 2217. | 3.19 | 6.3 | 118.0         | 3144.  | 220.0            | 5862.  | 46.38                        | 1236.          | 1100.0 | 29308. |
| 2/ 5/74  | 5.37       | 2410. | 3.47 | 6.4 | 222.0         | 6430.  | 210.0            | 6082.  | 54.40                        | 1576.          | 675.0  | 19550. |
| 3/ 5/74  | 3.83       | 1719. | 2.48 | 6.4 | 260.0         | 5371.  | 260.0            | 5371.  | 48.57                        | 1003.          | 775.0  | 16009. |
| 4/ 3/74  | 4.28       | 1921. | 2.77 | 6.3 | 96.0          | 2216.  | 220.0            | 5079.  | 41.91                        | 967.           | 925.0  | 21353. |
| 5/ 8/74  | 3.52       | 1580. | 2.28 | 6.3 | 156.0         | 2962.  | 170.0            | 3227.  | 46.80                        | 889.           | 775.0  | 14714. |
| 6/11/74  | 4.33       | 1943. | 2.80 | 6.4 | 174.0         | 4064.  | 206.0            | 4811.  | 48.80                        | 1140.          | 800.0  | 18683. |
| 7/ 9/74  | 4.31       | 1934. | 2.79 | 6.3 | 66.0          | 1534.  | 174.0            | 4045.  | 47.10                        | 1095.          | 1150.0 | 26733. |
| 8/13/74  | 2.27       | 1019. | 1.47 | 6.3 | 18.0          | 220.   | 220.0            | 2694.  | 42.30                        | 518.           | 1100.0 | 13468. |
| 9/11/74  | 3.24       | 1454. | 2.09 | 6.3 | 46.0          | 804.   | 170.0            | 2971.  | 49.10                        | 858.           | 1300.0 | 22718. |
| 10/ 9/74 | 2.84       | 1275. | 1.84 | 6.0 | 62.0          | 950.   | 158.0            | 2420.  | 42.50                        | 651.           | 1675.0 | 25657. |
| MINIMUM  | 2.27       | 1019. | 1.47 | 6.0 | 18.0          | 220.   | 158.0            | 2420.  | 33.87                        | 518.           | 650.0  | 13322. |
| MAXIMUM  | 5.37       | 2410. | 3.47 | 6.4 | 260.0         | 6430.  | 260.0            | 6082.  | 54.40                        | 1576.          | 1675.0 | 29308. |
| AVERAGE  | 3.91       | 1756. | 2.53 | 6.2 | 117.8         | 2667.  | 198.1            | 4209.  | 45.86                        | 978.           | 1002.1 | 20546. |

SAMPLE POINT NO. 26 HAMMOND DISCHARGE  
 =====

| DATE     | ---FLOW---                   |     |      | PH  | ---ACIDITY--- |        | ---ALKALINITY--- |        | TOTAL IRON--<br>CONC. LB/DAY | ---SULFATES--- |        |      |
|----------|------------------------------|-----|------|-----|---------------|--------|------------------|--------|------------------------------|----------------|--------|------|
|          | CFS                          | GPM | MGD  |     | CONC.         | LB/DAY | CONC.            | LB/DAY |                              | CONC.          | LB/DAY |      |
| 11/ 6/73 | 0.00                         | 0.  | 0.00 | 3.6 | 267.0         | 0.     | 0.0              | 0.     | 17.37                        | 0.             | 1415.0 | 0.   |
| 12/11/73 | 0.00                         | 0.  | 0.00 | 3.4 | 166.0         | 0.     | 0.0              | 0.     | 16.90                        | 0.             | 1050.0 | 0.   |
| 1/ 9/74  | 0.04                         | 18. | 0.03 | 4.3 | 288.0         | 62.    | 0.0              | 0.     | 20.59                        | 4.             | 1150.0 | 248. |
| 2/ 5/74  | 0.08                         | 36. | 0.05 | 3.7 | 270.0         | 117.   | 0.0              | 0.     | 26.44                        | 11.            | 1525.0 | 658. |
| 3/ 5/74  | 0.03                         | 13. | 0.02 | 4.2 | 220.0         | 36.    | 0.0              | 0.     | 17.01                        | 3.             | 1000.0 | 162. |
| 4/ 3/74  | 0.05                         | 22. | 0.03 | 4.2 | 200.0         | 54.    | 0.0              | 0.     | 11.91                        | 3.             | 1100.0 | 297. |
| 5/ 8/74  | 0.04                         | 18. | 0.03 | 4.3 | 176.0         | 38.    | 0.0              | 0.     | 12.60                        | 3.             | 1100.0 | 237. |
| 6/11/74  | 0.01                         | 4.  | 0.01 | 4.4 | 92.0          | 5.     | 0.0              | 0.     | 8.80                         | 0.             | 900.0  | 49.  |
| 7/ 9/74  | 0.00                         | 0.  | 0.00 | 4.4 | 218.0         | 0.     | 0.0              | 0.     | 5.70                         | 0.             | 1300.0 | 0.   |
| 8/13/74  | FLOW NOT DETERMINED/NO WATER |     |      |     | SAMPLE TAKEN  |        |                  |        |                              |                |        |      |
|          |                              |     |      |     | 0.0           | 0.     | 0.0              | 0.     | 0.00                         | 0.             | 0.0    | 0.   |
| 9/11/74  | FLOW NOT DETERMINED/NO WATER |     |      |     | SAMPLE TAKEN  |        |                  |        |                              |                |        |      |
|          |                              |     |      |     | 0.0           | 0.     | 0.0              | 0.     | 0.00                         | 0.             | 0.0    | 0.   |
| 10/ 9/74 | FLOW NOT DETERMINED/NO WATER |     |      |     | SAMPLE TAKEN  |        |                  |        |                              |                |        |      |
|          |                              |     |      |     | 0.0           | 0.     | 0.0              | 0.     | 0.00                         | 0.             | 0.0    | 0.   |
| MINIMUM  | 0.00                         | 0.  | 0.00 | 0.0 | 0.0           | 0.     | 0.0              | 0.     | 0.00                         | 0.             | 0.0    | 0.   |
| MAXIMUM  | 0.08                         | 36. | 0.05 | 4.4 | 288.0         | 117.   | 0.0              | 0.     | 26.44                        | 11.            | 1525.0 | 658. |
| AVERAGE  | 0.02                         | 9.  | 0.01 | 4.1 | 210.8         | 35.    | 0.0              | 0.     | 15.31                        | 3.             | 1171.1 | 183. |

SAMPLE POINT NO. 27 SHENANDOAH CREEK AT CONNERTON  
 =====

| DATE     | ---FLOW--- |        |       | PH  | ---ACIDITY--- |        | ---ALKALINITY--- |        | TOTAL<br>CONC. | IRON--<br>LB/DAY | ---SULFATES--- |         |
|----------|------------|--------|-------|-----|---------------|--------|------------------|--------|----------------|------------------|----------------|---------|
|          | CFS        | GPM    | MGD   |     | CONC.         | LB/DAY | CONC.            | LB/DAY |                |                  | CONC.          | LB/DAY  |
| 11/ 6/73 | 15.30      | 6867.  | 9.89  | 4.5 | 135.0         | 11140. | 0.0              | 0.     | 41.58          | 3431.            | 940.0          | 77570.  |
| 12/11/73 | 15.40      | 6912.  | 9.95  | 5.1 | 94.0          | 7808.  | 0.0              | 0.     | 25.35          | 2106.            | 750.0          | 62295.  |
| 1/ 8/74  | 22.00      | 9874.  | 14.22 | 5.8 | 106.0         | 12578. | 0.0              | 0.     | 24.36          | 2891.            | 950.0          | 112725. |
| 2/ 5/74  | 21.80      | 9785.  | 14.09 | 6.3 | 114.0         | 13404. | 18.0             | 2116.  | 31.85          | 3745.            | 950.0          | 111700. |
| 3/ 5/74  | 18.40      | 8259.  | 11.89 | 5.8 | 70.0          | 6947.  | 0.0              | 0.     | 27.83          | 2762.            | 575.0          | 57064.  |
| 4/ 3/74  | 26.30      | 11804. | 17.00 | 5.0 | 140.0         | 19859. | 0.0              | 0.     | 22.38          | 3175.            | 600.0          | 85110.  |
| 5/ 8/74  | 27.40      | 12298. | 17.71 | 5.1 | 138.0         | 20394. | 0.0              | 0.     | 17.80          | 2631.            | 800.0          | 118226. |
| 6/11/74  | 14.30      | 6418.  | 9.24  | 6.4 | 22.0          | 1697.  | 74.0             | 5707.  | 16.10          | 1242.            | 675.0          | 52061.  |
| 7/ 9/74  | 19.30      | 8662.  | 12.47 | 5.9 | 84.0          | 8744.  | 0.0              | 0.     | 22.20          | 2311.            | 1100.0         | 114505. |
| 8/13/74  | 10.10      | 4533.  | 6.53  | 6.4 | 40.0          | 2179.  | 116.0            | 6319.  | 19.90          | 1084.            | 950.0          | 51751.  |
| 9/11/74  | 11.50      | 5162.  | 7.43  | 6.4 | 32.0          | 1985.  | 20.0             | 1241.  | 19.80          | 1228.            | 1050.0         | 65127.  |
| 10/ 9/74 | 19.20      | 8618.  | 12.41 | 4.7 | 202.0         | 20918. | 0.0              | 0.     | 22.40          | 2320.            | 1450.0         | 150156. |
| MINIMUM  | 10.10      | 4533.  | 6.53  | 4.5 | 22.0          | 1697.  | 0.0              | 0.     | 16.10          | 1084.            | 575.0          | 51751.  |
| MAXIMUM  | 27.40      | 12298. | 17.71 | 6.4 | 202.0         | 20918. | 116.0            | 6319.  | 41.58          | 3745.            | 1450.0         | 150156. |
| AVERAGE  | 18.42      | 8266.  | 11.90 | 5.6 | 98.1          | 10638. | 19.0             | 1282.  | 24.30          | 2410.            | 899.2          | 88191.  |

SAMPLE POINT NO. 28 CONNERTON NO. 1 DISCHARGE  
 =====

| DATE     | ---FLOW--- |       |      | PH  | ---ACIDITY--- |        | ---ALKALINITY--- |        | TOTAL<br>CONC. | IRON--<br>LB/DAY | ---SULFATES--- |        |
|----------|------------|-------|------|-----|---------------|--------|------------------|--------|----------------|------------------|----------------|--------|
|          | CFS        | GPM   | MGD  |     | CONC.         | LB/DAY | CONC.            | LB/DAY |                |                  | CONC.          | LB/DAY |
| 11/ 6/73 | 1.12       | 503.  | 0.72 | 6.8 | 0.0           | 0.     | 217.0            | 1311.  | 1.62           | 10.              | 875.0          | 5286.  |
| 12/11/73 | 1.67       | 750.  | 1.08 | 6.6 | 0.0           | 0.     | 260.0            | 2342.  | 9.44           | 85.              | 700.0          | 6305.  |
| 1/ 8/74  | 2.80       | 1257. | 1.81 | 6.9 | 44.0          | 664.   | 270.0            | 4078.  | 2.35           | 35.              | 1000.0         | 15102. |
| 2/ 5/74  | 2.50       | 1122. | 1.62 | 6.9 | 24.0          | 324.   | 280.0            | 3775.  | 4.14           | 56.              | 825.0          | 11124. |
| 3/ 5/74  | 2.13       | 956.  | 1.38 | 6.8 | 34.0          | 391.   | 288.0            | 3309.  | 2.01           | 23.              | 600.0          | 6893.  |
| 4/ 3/74  | 3.71       | 1665. | 2.40 | 6.7 | 36.0          | 720.   | 280.0            | 5603.  | 1.91           | 38.              | 700.0          | 14007. |
| 5/ 8/74  | 1.40       | 628.  | 0.90 | 6.8 | 14.0          | 106.   | 282.0            | 2129.  | 2.30           | 17.              | 725.0          | 5474.  |
| 6/11/74  | 1.20       | 539.  | 0.78 | 6.8 | 0.0           | 0.     | 264.0            | 1709.  | 1.50           | 10.              | 575.0          | 3722.  |
| 7/ 9/74  | 1.60       | 718.  | 1.03 | 6.7 | 78.0          | 673.   | 270.0            | 2330.  | 0.90           | 8.               | 1050.0         | 9061.  |
| 8/12/74  | 0.86       | 386.  | 0.56 | 6.7 | 0.0           | 0.     | 296.0            | 1373.  | 1.60           | 7.               | 1025.0         | 4754.  |
| 9/11/74  | 0.72       | 323.  | 0.47 | 6.8 | 24.0          | 93.    | 210.0            | 816.   | 1.60           | 6.               | 1075.0         | 4175.  |
| 10/ 9/74 | 0.75       | 337.  | 0.48 | 6.5 | 20.0          | 81.    | 166.0            | 671.   | 4.20           | 17.              | 1225.0         | 4955.  |
| MINIMUM  | 0.72       | 323.  | 0.47 | 6.5 | 0.0           | 0.     | 166.0            | 671.   | 0.90           | 6.               | 575.0          | 3722.  |
| MAXIMUM  | 3.71       | 1665. | 2.40 | 6.9 | 78.0          | 720.   | 296.0            | 5603.  | 9.44           | 85.              | 1225.0         | 15102. |
| AVERAGE  | 1.70       | 765.  | 1.10 | 6.7 | 22.8          | 254.   | 256.9            | 2454.  | 2.80           | 26.              | 864.6          | 7571.  |

SAMPLE POINT NO. 29 CONNERTON NO. 2 DISCHARGE  
 =====

| DATE     | ---FLOW--- |      |      | PH  | ---ACIDITY--- |        | ---ALKALINITY--- |        | TOTAL<br>CONC. | IRON--<br>LB/DAY | ---SULFATES--- |        |
|----------|------------|------|------|-----|---------------|--------|------------------|--------|----------------|------------------|----------------|--------|
|          | CFS        | GPM  | MGD  |     | CONC.         | LB/DAY | CONC.            | LB/DAY |                |                  | CONC.          | LB/DAY |
| 11/ 7/73 | 0.05       | 22.  | 0.03 | 6.6 | 50.0          | 13.    | 174.0            | 47.    | 30.48          | 8.               | 1000.0         | 270.   |
| 12/12/73 | 0.08       | 36.  | 0.05 | 6.0 | 0.0           | 0.     | 224.0            | 97.    | 30.59          | 13.              | 575.0          | 248.   |
| 1/ 8/74  | 0.09       | 40.  | 0.06 | 6.6 | 128.0         | 62.    | 186.0            | 90.    | 41.27          | 20.              | 1075.0         | 522.   |
| 2/ 5/74  | 0.36       | 162. | 0.23 | 6.7 | 126.0         | 245.   | 160.0            | 311.   | 33.34          | 65.              | 775.0          | 1505.  |
| 3/ 5/74  | 0.32       | 144. | 0.21 | 6.4 | 26.0          | 45.    | 170.0            | 293.   | 39.30          | 68.              | 925.0          | 1596.  |
| 4/ 3/74  | 0.41       | 184. | 0.26 | 6.1 | 150.0         | 332.   | 170.0            | 376.   | 29.29          | 65.              | 1150.0         | 2543.  |
| 5/ 8/74  | 0.20       | 90.  | 0.13 | 6.4 | 82.0          | 88.    | 202.0            | 218.   | 34.30          | 37.              | 1025.0         | 1106.  |
| 6/10/74  | 0.20       | 90.  | 0.13 | 6.4 | 12.0          | 13.    | 200.0            | 216.   | 36.80          | 40.              | 950.0          | 1025.  |
| 7/ 9/74  | 0.26       | 117. | 0.17 | 6.5 | 144.0         | 202.   | 180.0            | 252.   | 36.60          | 51.              | 1450.0         | 2033.  |
| 8/12/74  | 0.12       | 54.  | 0.08 | 6.6 | 20.0          | 13.    | 216.0            | 140.   | 33.20          | 21.              | 1300.0         | 841.   |
| 9/11/74  | 0.11       | 49.  | 0.07 | 6.4 | 74.0          | 44.    | 132.0            | 78.    | 39.60          | 23.              | 1375.0         | 816.   |
| 10/ 9/74 | 0.13       | 58.  | 0.08 | 6.0 | 120.0         | 84.    | 116.0            | 81.    | 34.40          | 24.              | 1575.0         | 1104.  |
| MINIMUM  | 0.05       | 22.  | 0.03 | 6.0 | 0.0           | 0.     | 116.0            | 47.    | 29.29          | 8.               | 575.0          | 248.   |
| MAXIMUM  | 0.41       | 184. | 0.26 | 6.7 | 150.0         | 332.   | 224.0            | 376.   | 41.27          | 68.              | 1575.0         | 2543.  |
| AVERAGE  | 0.19       | 87.  | 0.13 | 6.4 | 77.7          | 95.    | 177.5            | 183.   | 34.93          | 36.              | 1097.9         | 1134.  |

SAMPLE POINT NO. 30 SHENANDOAH CREEK BELOW CONNERTON

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| DATE     | ---FLOW--- |        |       | PH  | ---ACIDITY--- |        | ---ALKALINITY--- |        | ---TOTAL<br>CONC. | IRON--<br>LB/DAY | ---SULFATES--- |         |
|----------|------------|--------|-------|-----|---------------|--------|------------------|--------|-------------------|------------------|----------------|---------|
|          | CFS        | GPM    | MGD   |     | CONC.         | LB/DAY | CONC.            | LB/DAY |                   |                  | CONC.          | LB/DAY  |
| 11/ 7/73 | 20.50      | 9201.  | 13.25 | 4.8 | 17.0          | 1880.  | 1.0              | 111.   | 42.34             | 4681.            | 875.0          | 96747.  |
| 12/12/73 | 19.50      | 8752.  | 12.60 | 5.7 | 46.0          | 4838.  | 8.0              | 841.   | 21.66             | 2278.            | 575.0          | 60475.  |
| 1/ 8/74  | 31.60      | 14183. | 20.42 | 6.1 | 92.0          | 15680. | 14.0             | 2386.  | 27.37             | 4665.            | 1025.0         | 174697. |
| 2/ 5/74  | 23.80      | 10682. | 15.38 | 6.3 | 72.0          | 9242.  | 20.0             | 2567.  | 27.83             | 3572.            | 775.0          | 99484.  |
| 3/ 5/74  | 22.10      | 9919.  | 14.28 | 6.4 | 90.0          | 10728. | 20.0             | 2384.  | 26.76             | 3190.            | 550.0          | 65558.  |
| 4/ 3/74  | 36.30      | 16293. | 23.46 | 5.4 | 100.0         | 19579. | 16.0             | 3133.  | 20.24             | 3963.            | 700.0          | 137050. |
| 5/ 8/74  | 43.80      | 19659. | 28.31 | 5.4 | 98.0          | 23151. | 2.0              | 472.   | 19.90             | 4701.            | 825.0          | 194895. |
| 6/11/74  | 12.50      | 5610.  | 8.08  | 6.3 | 10.0          | 674.   | 90.0             | 6068.  | 13.80             | 930.             | 600.0          | 40452.  |
| 7/ 9/74  | 22.60      | 10144. | 14.61 | 6.3 | 100.0         | 12189. | 126.0            | 15359. | 17.50             | 2133.            | 1150.0         | 140178. |
| 8/12/74  | 11.40      | 5117.  | 7.37  | 6.4 | 40.0          | 2459.  | 154.0            | 9469.  | 17.50             | 1076.            | 900.0          | 55338.  |
| 9/11/74  | 12.60      | 5655.  | 8.14  | 6.6 | 60.0          | 4072.  | 22.0             | 1495.  | 18.80             | 1278.            | 1100.0         | 74754.  |
| 10/ 9/74 | 20.80      | 9336.  | 13.44 | 4.8 | 88.0          | 9872.  | 0.0              | 0.     | 19.70             | 2210.            | 1550.0         | 173888. |
| MINIMUM  | 11.40      | 5117.  | 7.37  | 4.8 | 10.0          | 674.   | 0.0              | 0.     | 13.80             | 930.             | 550.0          | 40452.  |
| MAXIMUM  | 43.80      | 19659. | 28.31 | 6.6 | 100.0         | 23151. | 154.0            | 15359. | 42.34             | 4701.            | 1550.0         | 194895. |
| AVERAGE  | 23.12      | 10379. | 14.95 | 5.9 | 67.8          | 9531.  | 39.4             | 3690.  | 22.78             | 2890.            | 885.4          | 109459. |

SAMPLE POINT NO. 31 NORTH GIRARDVILLE DISCHARGE

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| DATE     | ---FLOW--- |      |      | PH  | ---ACIDITY--- |        | ---ALKALINITY--- |        | ---TOTAL<br>CONC. | IRON--<br>LB/DAY | ---SULFATES--- |        |
|----------|------------|------|------|-----|---------------|--------|------------------|--------|-------------------|------------------|----------------|--------|
|          | CFS        | GPM  | MGD  |     | CONC.         | LB/DAY | CONC.            | LB/DAY |                   |                  | CONC.          | LB/DAY |
| 11/ 7/73 | 0.01       | 4.   | 0.01 | 6.0 | 23.0          | 1.     | 33.0             | 2.     | 50.74             | 3.               | 915.0          | 49.    |
| 12/11/73 | 0.00       | 0.   | 0.00 | 5.6 | 190.0         | 0.     | 0.0              | 0.     | 32.93             | 0.               | 425.0          | 0.     |
| 1/ 8/74  | 0.27       | 121. | 0.17 | 6.3 | 170.0         | 242.   | 62.0             | 90.    | 46.03             | 67.              | 1055.0         | 1536.  |
| 2/ 4/74  | 0.24       | 108. | 0.16 | 6.4 | 84.0          | 109.   | 98.0             | 127.   | 48.57             | 63.              | 900.0          | 1165.  |
| 3/ 4/74  | 0.26       | 117. | 0.17 | 6.5 | 100.0         | 140.   | 108.0            | 151.   | 52.96             | 74.              | 850.0          | 1192.  |
| 4/ 2/74  | 0.17       | 76.  | 0.11 | 6.5 | 12.0          | 11.    | 92.0             | 84.    | 37.14             | 34.              | 900.0          | 825.   |
| 5/ 8/74  | 0.17       | 76.  | 0.11 | 6.6 | 72.0          | 66.    | 120.0            | 110.   | 43.50             | 40.              | 825.0          | 756.   |
| 6/10/74  | 0.11       | 49.  | 0.07 | 6.6 | 0.0           | 0.     | 150.0            | 89.    | 0.00              | 0.               | 755.0          | 448.   |
| 7/ 8/74  | 0.08       | 36.  | 0.05 | 6.4 | 142.0         | 61.    | 150.0            | 65.    | 43.40             | 19.              | 1350.0         | 583.   |
| 8/12/74  | 0.02       | 9.   | 0.01 | 6.4 | 60.0          | 6.     | 164.0            | 18.    | 41.80             | 5.               | 1100.0         | 119.   |
| 9/11/74  | 0.02       | 9.   | 0.01 | 6.6 | 116.0         | 13.    | 82.0             | 9.     | 49.60             | 5.               | 1200.0         | 129.   |
| 10/ 8/74 | 0.02       | 9.   | 0.01 | 6.3 | 208.0         | 22.    | 126.0            | 14.    | 44.20             | 5.               | 1500.0         | 162.   |
| MINIMUM  | 0.00       | 0.   | 0.00 | 5.6 | 0.0           | 0.     | 0.0              | 0.     | 0.00              | 0.               | 425.0          | 0.     |
| MAXIMUM  | 0.27       | 121. | 0.17 | 6.6 | 208.0         | 248.   | 164.0            | 151.   | 52.96             | 74.              | 1500.0         | 1536.  |
| AVERAGE  | 0.11       | 51.  | 0.07 | 6.3 | 98.1          | 56.    | 98.8             | 63.    | 40.91             | 26.              | 981.3          | 580.   |

SAMPLE POINT NO. 32 SOUTH PRESTON DISCHARGE

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| DATE     | ---FLOW--- |       |      | PH  | ---ACIDITY--- |        | ---ALKALINITY--- |        | ---TOTAL<br>CONC. | IRON--<br>LB/DAY | ---SULFATES--- |        |
|----------|------------|-------|------|-----|---------------|--------|------------------|--------|-------------------|------------------|----------------|--------|
|          | CFS        | GPM   | MGD  |     | CONC.         | LB/DAY | CONC.            | LB/DAY |                   |                  | CONC.          | LB/DAY |
| 11/ 7/73 | 0.60       | 269.  | 0.39 | 6.5 | 54.0          | 175.   | 70.0             | 227.   | 23.96             | 78.              | 300.0          | 971.   |
| 12/10/73 | 0.86       | 386.  | 0.56 | 6.3 | 80.0          | 371.   | 88.0             | 408.   | 23.22             | 108.             | 275.0          | 1276.  |
| 1/ 8/74  | 1.50       | 673.  | 0.97 | 6.0 | 46.0          | 372.   | 24.0             | 194.   | 12.52             | 101.             | 230.0          | 1861.  |
| 2/ 4/74  | 1.68       | 754.  | 1.09 | 6.2 | 10.0          | 91.    | 90.0             | 816.   | 10.59             | 96.              | 200.0          | 1812.  |
| 3/ 4/74  | 1.32       | 592.  | 0.85 | 6.5 | 60.0          | 427.   | 54.0             | 384.   | 14.35             | 102.             | 225.0          | 1602.  |
| 4/ 2/74  | 2.12       | 952.  | 1.37 | 6.4 | 24.0          | 274.   | 52.0             | 595.   | 10.71             | 122.             | 225.0          | 2573.  |
| 5/ 7/74  | 2.40       | 1077. | 1.55 | 6.4 | 18.0          | 233.   | 62.0             | 803.   | 12.50             | 162.             | 75.0           | 971.   |
| 6/10/74  | 2.67       | 1198. | 1.73 | 6.5 | 2.0           | 29.    | 78.0             | 1123.  | 12.70             | 183.             | 100.0          | 1440.  |
| 7/ 8/74  | 2.50       | 1122. | 1.62 | 6.8 | 60.0          | 809.   | 80.0             | 1079.  | 13.50             | 182.             | 250.0          | 3371.  |
| 8/12/74  | 1.04       | 467.  | 0.67 | 6.9 | 32.0          | 179.   | 100.0            | 561.   | 13.00             | 73.              | 275.0          | 1543.  |
| 9/10/74  | 1.35       | 606.  | 0.87 | 6.8 | 30.0          | 218.   | 52.0             | 379.   | 12.50             | 91.              | 325.0          | 2366.  |
| 10/ 8/74 | 1.20       | 539.  | 0.78 | 6.2 | 44.0          | 285.   | 60.0             | 388.   | 11.60             | 75.              | 400.0          | 2589.  |
| MINIMUM  | 0.60       | 269.  | 0.39 | 6.0 | 2.0           | 29.    | 24.0             | 194.   | 10.59             | 73.              | 75.0           | 971.   |
| MAXIMUM  | 2.67       | 1198. | 1.73 | 6.9 | 80.0          | 809.   | 100.0            | 1123.  | 23.96             | 183.             | 400.0          | 3371.  |
| AVERAGE  | 1.60       | 720.  | 1.04 | 6.5 | 38.3          | 289.   | 67.5             | 580.   | 14.26             | 114.             | 240.0          | 1864.  |

SAMPLE POINT NO. 33 MAHANCY CREEK BELOW SOUTH PRESTON

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| DATE     | ---FLOW--- |        |        | PH  | ---ACIDITY--- |        | ---ALKALINITY--- |        | TOTAL IRON | ---SULFATES--- |        |         |
|----------|------------|--------|--------|-----|---------------|--------|------------------|--------|------------|----------------|--------|---------|
|          | CFS        | GPM    | MGD    |     | CONC.         | LB/DAY | CONC.            | LB/DAY |            | CONC.          | LB/DAY |         |
| 11/ 7/73 | 87.60      | 39318. | 56.62  | 6.4 | 23.0          | 10867. | 72.0             | 34018. | 27.93      | 13196.         | 900.0  | 425226. |
| 12/10/73 | 148.00     | 66427. | 95.66  | 6.3 | 34.0          | 27140. | 48.0             | 38316. | 26.13      | 20858.         | 450.0  | 359209. |
| 1/ 8/74  | 160.00     | 71813. | 103.41 | 6.4 | 64.0          | 55230. | 82.0             | 70763. | 33.59      | 28987.         | 995.0  | 858650. |
| 2/ 4/74  | 151.00     | 67774. | 97.59  | 6.0 | 46.0          | 37463. | 72.0             | 58638. | 26.78      | 21810.         | 425.0  | 346130. |
| 3/ 4/74  | 138.00     | 61939. | 89.19  | 6.4 | 80.0          | 59545. | 84.0             | 62522. | 34.49      | 25671.         | 725.0  | 539623. |
| 4/ 2/74  | 145.00     | 65081. | 93.72  | 6.4 | 30.0          | 23462. | 80.0             | 62565. | 24.76      | 19364.         | 775.0  | 606099. |
| 5/ 7/74  | 122.00     | 54758. | 78.85  | 6.6 | 70.0          | 46061. | 140.0            | 92122. | 28.80      | 18951.         | 975.0  | 641561. |
| 6/10/74  | 121.00     | 54309. | 78.20  | 6.5 | 6.0           | 3916.  | 112.0            | 73093. | 32.90      | 21471.         | 675.0  | 440517. |
| 7/ 8/74  | 120.00     | 53860. | 77.56  | 6.5 | 110.0         | 71195. | 68.0             | 44011. | 23.00      | 14886.         | 950.0  | 614863. |
| 8/12/74  | 65.20      | 29264. | 42.14  | 6.6 | 82.0          | 28836. | 174.0            | 61189. | 22.10      | 7772.          | 1050.0 | 369241. |
| 9/10/74  | 95.20      | 42729. | 61.53  | 6.6 | 64.0          | 32862. | 70.0             | 35943. | 18.50      | 9499.          | 925.0  | 474955. |
| 10/ 8/74 | 87.00      | 39048. | 56.23  | 6.2 | 74.0          | 34724. | 54.0             | 25339. | 21.80      | 10229.         | 1350.0 | 633471. |
| MINIMUM  | 65.20      | 29264. | 42.14  | 6.0 | 6.0           | 3916.  | 48.0             | 25339. | 18.50      | 7772.          | 425.0  | 346130. |
| MAXIMUM  | 160.00     | 71813. | 103.41 | 6.6 | 110.0         | 71195. | 174.0            | 92122. | 34.49      | 28987.         | 1350.0 | 858650. |
| AVERAGE  | 120.00     | 53860. | 77.56  | 6.4 | 56.9          | 35942. | 88.0             | 54876. | 26.73      | 17725.         | 849.6  | 525795. |

SAMPLE POINT NO. 34 NORTH PRESTON DISCHARGE

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| DATE     | ---FLOW--- |       |      | PH  | ---ACIDITY--- |        | ---ALKALINITY--- |        | TOTAL IRON | ---SULFATES--- |        |        |
|----------|------------|-------|------|-----|---------------|--------|------------------|--------|------------|----------------|--------|--------|
|          | CFS        | GPM   | MGD  |     | CONC.         | LB/DAY | CONC.            | LB/DAY |            | CONC.          | LB/DAY |        |
| 11/ 7/73 | 0.99       | 444.  | 0.64 | 3.3 | 190.0         | 1015.  | 0.0              | 0.     | 39.54      | 211.           | 1000.0 | 5340.  |
| 12/10/73 | 0.13       | 58.   | 0.08 | 3.1 | 480.0         | 337.   | 0.0              | 0.     | 32.93      | 23.            | 925.0  | 649.   |
| 1/ 8/74  | 2.34       | 1050. | 1.51 | 3.1 | 254.0         | 3206.  | 0.0              | 0.     | 26.48      | 334.           | 1050.0 | 13252. |
| 2/ 4/74  | 1.04       | 467.  | 0.67 | 3.0 | 296.0         | 1660.  | 0.0              | 0.     | 32.20      | 181.           | 900.0  | 5048.  |
| 3/ 4/74  | 0.48       | 215.  | 0.31 | 3.3 | 294.0         | 761.   | 0.0              | 0.     | 39.30      | 102.           | 725.0  | 1877.  |
| 4/ 2/74  | 0.74       | 332.  | 0.48 | 3.3 | 204.0         | 814.   | 0.0              | 0.     | 26.43      | 105.           | 825.0  | 3293.  |
| 5/ 8/74  | 0.66       | 296.  | 0.43 | 3.4 | 210.0         | 748.   | 0.0              | 0.     | 29.40      | 105.           | 725.0  | 2581.  |
| 6/10/74  | 0.18       | 81.   | 0.12 | 3.2 | 290.0         | 282.   | 0.0              | 0.     | 33.50      | 33.            | 700.0  | 680.   |
| 7/ 8/74  | 0.24       | 108.  | 0.16 | 3.4 | 1300.0        | 1683.  | 0.0              | 0.     | 34.50      | 45.            | 1100.0 | 1424.  |
| 8/12/74  | 0.50       | 224.  | 0.32 | 3.4 | 260.0         | 701.   | 0.0              | 0.     | 30.60      | 83.            | 1100.0 | 2966.  |
| 9/10/74  | 0.50       | 224.  | 0.32 | 3.3 | 210.0         | 566.   | 0.0              | 0.     | 27.20      | 73.            | 1325.0 | 3573.  |
| 10/ 8/74 | 0.58       | 260.  | 0.37 | 3.1 | 200.0         | 626.   | 0.0              | 0.     | 33.50      | 105.           | 1350.0 | 4223.  |
| MINIMUM  | 0.13       | 58.   | 0.08 | 3.0 | 190.0         | 282.   | 0.0              | 0.     | 26.43      | 23.            | 700.0  | 649.   |
| MAXIMUM  | 2.34       | 1050. | 1.51 | 3.4 | 1300.0        | 3206.  | 0.0              | 0.     | 39.54      | 334.           | 1350.0 | 13252. |
| AVERAGE  | 0.70       | 313.  | 0.45 | 3.2 | 349.0         | 1033.  | 0.0              | 0.     | 32.13      | 117.           | 977.1  | 3742.  |

SAMPLE POINT NO. 35 MAHANCY CREEK BELOW PRESTON

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| DATE     | ---FLOW--- |        |        | PH  | ---ACIDITY--- |        | ---ALKALINITY--- |        | TOTAL IRON | ---SULFATES--- |        |         |
|----------|------------|--------|--------|-----|---------------|--------|------------------|--------|------------|----------------|--------|---------|
|          | CFS        | GPM    | MGD    |     | CONC.         | LB/DAY | CONC.            | LB/DAY |            | CONC.          | LB/DAY |         |
| 11/ 7/73 | 110.00     | 49372. | 71.10  | 6.4 | 18.0          | 10679. | 58.0             | 34411. | 33.01      | 19584.         | 925.0  | 548792. |
| 12/10/73 | 164.00     | 73609. | 106.00 | 6.4 | 50.0          | 44227. | 50.0             | 44227. | 26.92      | 23812.         | 850.0  | 751858. |
| 1/ 8/74  | 150.00     | 67325. | 96.95  | 6.5 | 84.0          | 67959. | 76.0             | 61486. | 32.56      | 26342.         | 1050.0 | 849482. |
| 2/ 4/74  | 171.00     | 76750. | 110.52 | 6.2 | 34.0          | 31358. | 72.0             | 66405. | 27.83      | 25667.         | 800.0  | 737836. |
| 3/ 4/74  | 149.00     | 66876. | 96.30  | 6.6 | 62.0          | 49825. | 80.0             | 64291. | 26.78      | 21521.         | 800.0  | 642909. |
| 4/ 2/74  | 170.00     | 76302. | 109.87 | 6.5 | 52.0          | 47679. | 80.0             | 73352. | 26.67      | 24454.         | 850.0  | 779365. |
| 5/ 7/74  | 143.00     | 64183. | 92.42  | 6.6 | 60.0          | 46277. | 124.0            | 95638. | 29.40      | 22676.         | 775.0  | 597739. |
| 6/10/74  | 134.00     | 60144. | 86.61  | 6.4 | 88.0          | 63601. | 102.0            | 73719. | 31.60      | 22838.         | 800.0  | 578187. |
| 7/ 8/74  | 122.00     | 54758. | 78.85  | 6.5 | 82.0          | 53957. | 88.0             | 57905. | 25.20      | 16582.         | 1175.0 | 773163. |
| 8/12/74  | 69.60      | 31239. | 44.98  | 6.6 | 60.0          | 22523. | 174.0            | 65318. | 20.30      | 7620.          | 1075.0 | 403544. |
| 9/10/74  | 99.20      | 44524. | 64.11  | 6.8 | 60.0          | 32102. | 92.0             | 49224. | 16.90      | 9042.          | 1075.0 | 575167. |
| 10/ 8/74 | 90.30      | 40530. | 58.36  | 6.2 | 50.0          | 24352. | 52.0             | 25326. | 20.40      | 9936.          | 1250.0 | 608795. |
| MINIMUM  | 69.60      | 31239. | 44.98  | 6.2 | 18.0          | 10679. | 50.0             | 25326. | 16.90      | 7620.          | 775.0  | 403544. |
| MAXIMUM  | 171.00     | 76750. | 110.52 | 6.8 | 88.0          | 67959. | 174.0            | 95638. | 33.01      | 26342.         | 1250.0 | 849482. |
| AVERAGE  | 131.01     | 59801. | 84.67  | 6.5 | 58.3          | 41212. | 87.3             | 59275. | 26.46      | 19173.         | 952.1  | 653903. |

SAMPLE PCINT NO. 36 CENTRALIA TUNNEL DISCHARGE  
 =====

| DATE     | ---FLOW--- |        |       | PH  | ---ACIDITY--- |        | ---ALKALINITY--- |        | TOTAL IRON--<br>CONC. LB/DAY | ---SULFATES--- |        |        |
|----------|------------|--------|-------|-----|---------------|--------|------------------|--------|------------------------------|----------------|--------|--------|
|          | CFS        | GPM    | MGD   |     | CONC.         | LB/DAY | CONC.            | LB/DAY |                              | CONC.          | LB/DAY |        |
| 11/ 7/73 | 8.92       | 4004.  | 5.77  | 3.4 | 280.0         | 13471. | 0.0              | 0.     | 17.09                        | 822.           | 800.0  | 38488. |
| 12/10/73 | 18.70      | 8393.  | 12.09 | 3.3 | 290.0         | 29249. | 0.0              | 0.     | 21.85                        | 2204.          | 750.0  | 75644. |
| 1/ 8/74  | 25.30      | 11355. | 16.35 | 3.4 | 210.0         | 28656. | 0.0              | 0.     | 7.37                         | 1006.          | 560.0  | 76416. |
| 2/ 4/74  | 27.90      | 12522. | 18.03 | 3.1 | 180.0         | 270F6. | 0.0              | 0.     | 8.89                         | 1338.          | 500.0  | 75240. |
| 3/ 4/74  | 17.90      | 8034.  | 11.57 | 3.5 | 212.0         | 20467. | 0.0              | 0.     | 9.71                         | 937.           | 350.0  | 33790. |
| 4/ 2/74  | 19.70      | 8842.  | 12.73 | 3.6 | 164.0         | 17425. | 0.0              | 0.     | 9.76                         | 1037.          | 425.0  | 45157. |
| 5/ 7/74  | 15.20      | 6822.  | 9.82  | 3.5 | 198.0         | 16232. | 0.0              | 0.     | 7.50                         | 615.           | 475.0  | 38941. |
| 6/10/74  | 13.40      | 6014.  | 8.66  | 3.5 | 180.0         | 13009. | 0.0              | 0.     | 8.70                         | 629.           | 425.0  | 30716. |
| 7/ 8/74  | 8.25       | 3703.  | 5.33  | 3.5 | 232.0         | 10323. | 0.0              | 0.     | 10.00                        | 445.           | 775.0  | 34485. |
| 8/12/74  | 9.45       | 4241.  | 6.11  | 3.6 | 230.0         | 11723. | 0.0              | 0.     | 8.40                         | 428.           | 575.0  | 29307. |
| 9/10/74  | 9.36       | 4201.  | 6.05  | 3.4 | 206.0         | 10400. | 0.0              | 0.     | 7.80                         | 394.           | 825.0  | 41649. |
| 10/ 8/74 | 8.45       | 3793.  | 5.46  | 3.2 | 250.0         | 11394. | 0.0              | 0.     | 9.80                         | 447.           | 825.0  | 37600. |
| MINIMUM  | 8.25       | 3703.  | 5.33  | 3.1 | 164.0         | 10323. | 0.0              | 0.     | 7.37                         | 394.           | 350.0  | 29307. |
| MAXIMUM  | 27.90      | 12522. | 18.03 | 3.6 | 290.0         | 29249. | 0.0              | 0.     | 21.85                        | 2204.          | 825.0  | 76416. |
| AVERAGE  | 15.21      | 6827.  | 9.83  | 3.4 | 219.3         | 17453. | 0.0              | 0.     | 10.57                        | 858.           | 607.1  | 46453. |

SAMPLE PCINT NO. 37 MAHANCY CREEK AT BIG MINE RUN  
 =====

| DATE     | ---FLOW--- |        |        | PH  | ---ACIDITY--- |        | ---ALKALINITY--- |        | TOTAL IRON--<br>CONC. LB/DAY | ---SULFATES--- |        |          |
|----------|------------|--------|--------|-----|---------------|--------|------------------|--------|------------------------------|----------------|--------|----------|
|          | CFS        | GPM    | MGD    |     | CONC.         | LB/DAY | CONC.            | LB/DAY |                              | CONC.          | LB/DAY |          |
| 11/ 8/73 | 135.00     | 60592. | 87.25  | 6.1 | 90.0          | 65531. | 23.0             | 16747. | 34.82                        | 25353.         | 900.0  | 655315.  |
| 12/10/73 | 164.00     | 73609. | 106.00 | 5.8 | 94.0          | 83147. | 6.0              | 5307.  | 23.84                        | 21087.         | 650.0  | 574951.  |
| 1/ 8/74  | 189.00     | 84829. | 122.15 | 6.3 | 56.0          | 57085. | 26.0             | 26504. | 29.73                        | 30306.         | 1010.0 | 1029572. |
| 2/ 4/74  | 207.00     | 92908. | 133.79 | 6.4 | 60.0          | 66988. | 36.0             | 40193. | 25.73                        | 28727.         | 650.0  | 725700.  |
| 3/ 4/74  | 150.00     | 71813. | 103.41 | 6.5 | 88.0          | 75941. | 62.0             | 53504. | 26.78                        | 23110.         | 600.0  | 517779.  |
| 4/ 2/74  | 222.00     | 99641. | 143.48 | 6.5 | 20.0          | 23947. | 26.0             | 31131. | 25.00                        | 29934.         | 600.0  | 718419.  |
| 5/ 7/74  | 164.00     | 73609. | 106.00 | 6.6 | 40.0          | 35382. | 80.0             | 70763. | 26.90                        | 23794.         | 950.0  | 840312.  |
| 6/10/74  | 145.00     | 65081. | 93.72  | 6.4 | 80.0          | 62565. | 82.0             | 64129. | 28.30                        | 22132.         | 775.0  | 606099.  |
| 7/ 8/74  | 127.00     | 57002. | 82.08  | 6.5 | 66.0          | 45209. | 50.0             | 34249. | 29.10                        | 19933.         | 1175.0 | 804850.  |
| 8/12/74  | 81.60      | 36625. | 52.74  | 6.6 | 60.0          | 26407. | 116.0            | 51053. | 18.70                        | 8230.          | 1100.0 | 484124.  |
| 9/10/74  | 107.00     | 48025. | 69.16  | 6.7 | 52.0          | 30010. | 62.0             | 35781. | 14.50                        | 8368.          | 950.0  | 548253.  |
| 10/ 8/74 | 99.30      | 44569. | 64.18  | 6.2 | 34.0          | 18210. | 30.0             | 16067. | 19.30                        | 10337.         | 1125.0 | 602525.  |
| MINIMUM  | 81.60      | 36625. | 52.74  | 5.8 | 20.0          | 18210. | 6.0              | 5307.  | 14.50                        | 8230.          | 600.0  | 484124.  |
| MAXIMUM  | 222.00     | 99641. | 143.48 | 6.7 | 94.0          | 83147. | 116.0            | 70763. | 34.82                        | 30306.         | 1175.0 | 1029572. |
| AVERAGE  | 150.07     | 67359. | 97.00  | 6.4 | 61.7          | 49202. | 49.9             | 37119. | 25.22                        | 20943.         | 873.8  | 675658.  |

SAMPLE PCINT NO. 38 BAST DISCHARGE  
 =====

| DATE     | ---FLOW--- |       |      | PH  | ---ACIDITY--- |        | ---ALKALINITY--- |        | TOTAL IRON--<br>CONC. LB/DAY | ---SULFATES--- |        |        |
|----------|------------|-------|------|-----|---------------|--------|------------------|--------|------------------------------|----------------|--------|--------|
|          | CFS        | GPM   | MGD  |     | CONC.         | LB/DAY | CONC.            | LB/DAY |                              | CONC.          | LB/DAY |        |
| 11/ 8/73 | 3.63       | 1629. | 2.35 | 6.4 | 50.0          | 979.   | 103.0            | 2017.  | 27.40                        | 536.           | 900.0  | 17621. |
| 12/10/73 | 4.35       | 1952. | 2.81 | 6.1 | 120.0         | 2915.  | 88.0             | 2065.  | 26.32                        | 618.           | 650.0  | 15250. |
| 1/ 7/74  | 4.35       | 1952. | 2.81 | 6.2 | 148.0         | 3472.  | 150.0            | 3519.  | 29.73                        | 698.           | 575.0  | 13491. |
| 2/ 4/74  | 5.75       | 2581. | 3.72 | 6.2 | 50.0          | 1551.  | 152.0            | 4714.  | 33.34                        | 1034.          | 450.0  | 13956. |
| 3/ 4/74  | 4.35       | 1952. | 2.81 | 6.3 | 180.0         | 4223.  | 162.0            | 3801.  | 32.20                        | 755.           | 400.0  | 9385.  |
| 4/ 2/74  | 5.25       | 2356. | 3.39 | 6.4 | 70.0          | 1982.  | 134.0            | 3794.  | 27.38                        | 775.           | 550.0  | 15574. |
| 5/ 7/74  | 5.08       | 2280. | 3.28 | 6.3 | 80.0          | 2192.  | 128.0            | 3507.  | 29.80                        | 816.           | 700.0  | 19179. |
| 6/10/74  | 5.00       | 2244. | 3.23 | 6.4 | 100.0         | 2697.  | 138.0            | 3722.  | 31.70                        | 855.           | 450.0  | 12135. |
| 7/ 8/74  | 4.75       | 2132. | 3.07 | 6.3 | 94.0          | 2408.  | 130.0            | 3331.  | 31.50                        | 807.           | 700.0  | 17934. |
| 8/12/74  | 3.20       | 1436. | 2.07 | 6.3 | 20.0          | 345.   | 136.0            | 2347.  | 30.10                        | 520.           | 725.0  | 12513. |
| 9/10/74  | 3.75       | 1683. | 2.42 | 6.5 | 100.0         | 2023.  | 84.0             | 1699.  | 33.90                        | 685.           | 850.0  | 17192. |
| 10/ 8/74 | 3.59       | 1611. | 2.32 | 6.1 | 2.0           | 39.    | 88.0             | 1704.  | 31.20                        | 604.           | 825.0  | 15974. |
| MINIMUM  | 3.20       | 1436. | 2.07 | 6.1 | 2.0           | 39.    | 84.0             | 1699.  | 26.32                        | 520.           | 400.0  | 9385.  |
| MAXIMUM  | 5.75       | 2581. | 3.72 | 6.5 | 180.0         | 4223.  | 162.0            | 4714.  | 33.90                        | 1034.          | 900.0  | 19179. |
| AVERAGE  | 4.42       | 1984. | 2.86 | 6.3 | 84.5          | 2060.  | 124.4            | 3018.  | 30.38                        | 725.           | 647.9  | 15017. |

SAMPLE PCINT NO. 39 MAHANCY CREEK BELOW BAST  
 =====

| DATE     | ---FLOW--- |         |        | PH  | ---ACIDITY--- |        | ---ALKALINITY--- |        | ---TOTAL IRON--- |        | ---SULFATES--- |         |
|----------|------------|---------|--------|-----|---------------|--------|------------------|--------|------------------|--------|----------------|---------|
|          | CFS        | GPM     | MGD    |     | CONC.         | LB/DAY | CONC.            | LB/DAY | CONC.            | LB/DAY | CONC.          | LB/DAY  |
| 11/ 8/73 | 146.00     | 65530.  | 94.36  | 6.4 | 50.0          | 39373. | 22.0             | 17324. | 32.20            | 25356. | 1000.0         | 787456. |
| 12/10/73 | 168.00     | 75404.  | 108.58 | 6.1 | 60.0          | 54367. | 14.0             | 12686. | 24.59            | 22281. | 550.0          | 498363. |
| 1/ 7/74  | 201.00     | 90215.  | 129.91 | 6.4 | 38.0          | 41196. | 20.0             | 21682. | 27.25            | 29542. | 575.0          | 623358. |
| 2/ 4/74  | 202.00     | 90664.  | 130.56 | 6.6 | 32.0          | 34864. | 38.0             | 41401. | 29.99            | 32674. | 800.0          | 871595. |
| 3/ 4/74  | 164.00     | 73609.  | 106.00 | 6.4 | 66.0          | 58380. | 66.0             | 58380. | 24.70            | 21848. | 525.0          | 464383. |
| 4/ 2/74  | 241.00     | 108169. | 155.76 | 6.5 | 40.0          | 51994. | 28.0             | 36396. | 23.10            | 30026. | 600.0          | 779905. |
| 5/ 7/74  | 170.00     | 76302.  | 109.87 | 6.6 | 52.0          | 47679. | 84.0             | 77020. | 27.30            | 25031. | 575.0          | 527218. |
| 6/10/74  | 148.00     | 66427.  | 95.66  | 6.4 | 32.0          | 25544. | 80.0             | 63859. | 19.10            | 15246. | 550.0          | 439034. |
| 7/ 8/74  | 137.00     | 61490.  | 98.55  | 6.4 | 44.0          | 32512. | 52.0             | 38424. | 21.10            | 15591. | 1150.0         | 849752. |
| 8/12/74  | 95.60      | 42908.  | 61.79  | 6.7 | 40.0          | 20625. | 118.0            | 60843. | 19.40            | 10003. | 1025.0         | 528513. |
| 9/10/74  | 114.00     | 51167.  | 73.68  | 6.8 | 40.0          | 24595. | 52.0             | 31973. | 18.20            | 11191. | 1075.0         | 660978. |
| 10/ 8/74 | 104.00     | 45679.  | 67.22  | 6.4 | 24.0          | 13462. | 40.0             | 22437. | 20.10            | 11275. | 1275.0         | 715183. |
| MINIMUM  | 95.60      | 42908.  | 61.79  | 6.1 | 24.0          | 13462. | 14.0             | 12686. | 18.20            | 10003. | 525.0          | 439034. |
| MAXIMUM  | 241.00     | 108169. | 155.76 | 6.8 | 66.0          | 58380. | 118.0            | 77020. | 32.20            | 32674. | 1275.0         | 871595. |
| AVERAGE  | 157.55     | 70714.  | 101.83 | 6.5 | 43.2          | 37049. | 51.2             | 40202. | 23.92            | 20839. | 808.3          | 645478. |

SAMPLE PCINT NO. 40 ASHLAND NO. 1 DISCHARGE  
 =====

| DATE     | ---FLOW--- |      |      | PH  | ---ACIDITY--- |        | ---ALKALINITY--- |        | ---TOTAL IRON--- |        | ---SULFATES--- |        |
|----------|------------|------|------|-----|---------------|--------|------------------|--------|------------------|--------|----------------|--------|
|          | CFS        | GPM  | MGD  |     | CONC.         | LB/DAY | CONC.            | LB/DAY | CONC.            | LB/DAY | CONC.          | LB/DAY |
| 11/ 8/73 | 0.13       | 58.  | 0.08 | 5.5 | 80.0          | 56.    | 5.0              | 4.     | 33.54            | 24.    | 725.0          | 508.   |
| 12/10/73 | 0.15       | 67.  | 0.10 | 5.5 | 130.0         | 105.   | 0.0              | 0.     | 26.92            | 22.    | 550.0          | 445.   |
| 1/ 7/74  | 0.20       | 90.  | 0.13 | 6.0 | 90.0          | 97.    | 2.0              | 2.     | 46.38            | 50.    | 475.0          | 512.   |
| 2/ 4/74  | 0.18       | 81.  | 0.12 | 6.1 | 54.0          | 52.    | 0.0              | 0.     | 43.13            | 42.    | 475.0          | 461.   |
| 3/ 4/74  | 0.16       | 72.  | 0.10 | 6.2 | 70.0          | 60.    | 8.0              | 7.     | 43.13            | 37.    | 400.0          | 345.   |
| 4/ 2/74  | 0.25       | 112. | 0.16 | 6.2 | 92.0          | 124.   | 0.0              | 0.     | 30.95            | 42.    | 525.0          | 708.   |
| 5/ 7/74  | 0.20       | 90.  | 0.13 | 6.3 | 36.0          | 39.    | 0.0              | 0.     | 36.70            | 40.    | 425.0          | 458.   |
| 6/10/74  | 0.21       | 94.  | 0.14 | 6.0 | 44.0          | 50.    | 22.0             | 25.    | 47.20            | 53.    | 400.0          | 453.   |
| 7/ 8/74  | 0.19       | 85.  | 0.12 | 6.5 | 110.0         | 113.   | 20.0             | 20.    | 45.50            | 47.    | 650.0          | 666.   |
| 8/12/74  | 0.11       | 49.  | 0.07 | 6.6 | 58.0          | 34.    | 20.0             | 12.    | 39.90            | 24.    | 625.0          | 371.   |
| 9/10/74  | 0.15       | 67.  | 0.10 | 6.1 | 170.0         | 138.   | 10.0             | 8.     | 48.30            | 39.    | 775.0          | 627.   |
| 10/ 8/74 | 0.14       | 63.  | 0.09 | 5.8 | 70.0          | 53.    | 238.0            | 180.   | 36.40            | 27.    | 800.0          | 604.   |
| MINIMUM  | 0.11       | 49.  | 0.07 | 5.5 | 36.0          | 34.    | 0.0              | 0.     | 26.92            | 22.    | 400.0          | 345.   |
| MAXIMUM  | 0.25       | 112. | 0.16 | 6.6 | 170.0         | 138.   | 238.0            | 180.   | 48.30            | 53.    | 800.0          | 708.   |
| AVERAGE  | 0.17       | 77.  | 0.11 | 6.1 | 83.7          | 77.    | 27.1             | 21.    | 39.84            | 37.    | 568.8          | 513.   |

SAMPLE PCINT NO. 41 ASHLAND NO. 2 DISCHARGE  
 =====

| DATE     | ---FLOW--- |      |      | PH  | ---ACIDITY--- |        | ---ALKALINITY--- |        | ---TOTAL IRON--- |        | ---SULFATES--- |        |
|----------|------------|------|------|-----|---------------|--------|------------------|--------|------------------|--------|----------------|--------|
|          | CFS        | GPM  | MGD  |     | CONC.         | LB/DAY | CONC.            | LB/DAY | CONC.            | LB/DAY | CONC.          | LB/DAY |
| 11/ 8/73 | 0.14       | 53.  | 0.09 | 7.6 | 0.0           | 0.     | 251.0            | 190.   | 5.60             | 4.     | 825.0          | 623.   |
| 12/10/73 | 0.16       | 72.  | 0.10 | 7.3 | 0.0           | 0.     | 350.0            | 302.   | 6.17             | 5.     | 575.0          | 496.   |
| 1/ 7/74  | 0.22       | 99.  | 0.14 | 7.2 | 0.0           | 0.     | 434.0            | 515.   | 13.22            | 16.    | 600.0          | 712.   |
| 2/ 4/74  | 0.22       | 99.  | 0.14 | 7.0 | 14.0          | 17.    | 400.0            | 475.   | 10.00            | 12.    | 525.0          | 623.   |
| 3/ 4/74  | 0.18       | 81.  | 0.12 | 7.0 | 0.0           | 0.     | 422.0            | 410.   | 11.52            | 11.    | 575.0          | 558.   |
| 4/ 2/74  | 0.28       | 126. | 0.18 | 6.9 | 36.0          | 54.    | 392.0            | 592.   | 14.52            | 22.    | 575.0          | 868.   |
| 5/ 7/74  | 0.22       | 99.  | 0.14 | 6.8 | 0.0           | 0.     | 390.0            | 463.   | 7.10             | 8.     | 650.0          | 771.   |
| 6/10/74  | 0.19       | 85.  | 0.12 | 7.0 | 20.0          | 20.    | 396.0            | 406.   | 19.50            | 20.    | 475.0          | 487.   |
| 7/ 8/74  | 0.20       | 90.  | 0.13 | 7.0 | 68.0          | 73.    | 360.0            | 388.   | 16.40            | 18.    | 825.0          | 890.   |
| 8/12/74  | 0.12       | 54.  | 0.08 | 7.1 | 0.0           | 0.     | 406.0            | 263.   | 13.20            | 9.     | 700.0          | 453.   |
| 9/10/74  | 0.15       | 67.  | 0.10 | 7.3 | 24.0          | 19.    | 246.0            | 199.   | 13.50            | 11.    | 825.0          | 667.   |
| 10/ 8/74 | 0.17       | 76.  | 0.11 | 7.2 | 0.0           | 0.     | 266.0            | 244.   | 3.50             | 3.     | 850.0          | 779.   |
| MINIMUM  | 0.12       | 54.  | 0.08 | 6.8 | 0.0           | 0.     | 246.0            | 190.   | 3.50             | 3.     | 475.0          | 453.   |
| MAXIMUM  | 0.28       | 126. | 0.18 | 7.6 | 68.0          | 73.    | 434.0            | 592.   | 19.50            | 22.    | 850.0          | 890.   |
| AVERAGE  | 0.19       | 84.  | 0.12 | 7.1 | 13.5          | 15.    | 359.4            | 370.   | 11.19            | 12.    | 666.7          | 661.   |

SAMPLE PCINT NO. 42 ASHLAND NO. 3 DISCHARGE  
 =====

| DATE     | ---FLOW--- |      |      | PH  | ---ACIDITY--- |        | ---ALKALINITY--- |        | TOTAL<br>CONC. | IRON<br>LB/DAY | ---SULFATES--- |        |
|----------|------------|------|------|-----|---------------|--------|------------------|--------|----------------|----------------|----------------|--------|
|          | CFS        | GPM  | MGD  |     | CONC.         | LB/DAY | CONC.            | LB/DAY |                |                | CONC.          | LB/DAY |
| 11/ 8/73 | 0.07       | 31.  | 0.05 | 6.9 | 4.0           | 2.     | 9.0              | 3.     | 1.77           | 1.             | 155.0          | 59.    |
| 12/10/73 | 0.11       | 49.  | 0.07 | 5.8 | 0.0           | 0.     | 14.0             | 8.     | 2.01           | 1.             | 275.0          | 163.   |
| 1/ 7/74  | 0.43       | 193. | 0.28 | 4.6 | 24.0          | 56.    | 4.0              | 9.     | 1.36           | 3.             | 180.0          | 417.   |
| 2/ 4/74  | 0.39       | 175. | 0.25 | 5.2 | 10.0          | 21.    | 6.0              | 13.    | 1.52           | 3.             | 191.0          | 402.   |
| 3/ 4/74  | 0.34       | 153. | 0.22 | 6.5 | 10.0          | 18.    | 14.0             | 26.    | 1.20           | 2.             | 176.0          | 323.   |
| 4/ 2/74  | 0.52       | 233. | 0.34 | 6.7 | 12.0          | 34.    | 8.0              | 22.    | 0.95           | 3.             | 135.0          | 379.   |
| 5/ 7/74  | 0.31       | 139. | 0.20 | 6.7 | 6.0           | 10.    | 20.0             | 33.    | 0.90           | 2.             | 105.0          | 179.   |
| 6/10/74  | 0.27       | 121. | 0.17 | 6.8 | 4.0           | 6.     | 16.0             | 23.    | 0.50           | 1.             | 151.0          | 220.   |
| 7/ 8/74  | 0.53       | 238. | 0.34 | 6.8 | 24.0          | 69.    | 12.0             | 34.    | 1.10           | 3.             | 175.0          | 500.   |
| 8/12/74  | 0.10       | 45.  | 0.06 | 7.1 | 2.0           | 1.     | 8.0              | 4.     | 0.80           | 0.             | 225.0          | 121.   |
| 9/10/74  | 0.23       | 103. | 0.15 | 6.5 | 8.0           | 10.    | 10.0             | 12.    | 0.40           | 0.             | 300.0          | 372.   |
| 10/ 8/74 | 0.18       | 81.  | 0.12 | 6.4 | 4.0           | 4.     | 66.0             | 64.    | 1.40           | 1.             | 225.0          | 218.   |
| MINIMUM  | 0.07       | 31.  | 0.05 | 4.6 | 0.0           | 0.     | 4.0              | 3.     | 0.40           | 0.             | 105.0          | 59.    |
| MAXIMUM  | 0.53       | 238. | 0.34 | 7.1 | 24.0          | 69.    | 66.0             | 64.    | 2.01           | 3.             | 300.0          | 500.   |
| AVERAGE  | 0.29       | 130. | 0.19 | 6.3 | 9.0           | 19.    | 15.6             | 21.    | 1.16           | 2.             | 191.1          | 279.   |

SAMPLE PCINT NO. 43 MAHANDY CREEK BELOW ASHLAND  
 =====

| DATE     | ---FLOW--- |         |        | PH  | ---ACIDITY--- |         | ---ALKALINITY--- |         | TOTAL<br>CONC. | IRON<br>LB/DAY | ---SULFATES--- |          |
|----------|------------|---------|--------|-----|---------------|---------|------------------|---------|----------------|----------------|----------------|----------|
|          | CFS        | GPM     | MGD    |     | CONC.         | LB/DAY  | CONC.            | LB/DAY  |                |                | CONC.          | LB/DAY   |
| 11/ 8/73 | 151.00     | 67774.  | 97.59  | 6.3 | 50.0          | 40721.  | 38.0             | 30948.  | 28.96          | 23586.         | 865.0          | 704476.  |
| 12/10/73 | 179.00     | 80341.  | 115.69 | 6.0 | 62.0          | 59857.  | 12.0             | 11585.  | 24.59          | 23740.         | 450.0          | 434449.  |
| 1/11/74  | 210.00     | 94255.  | 135.73 | 6.4 | 54.0          | 61163.  | 26.0             | 29449.  | 28.04          | 31759.         | 675.0          | 764534.  |
| 2/ 6/74  | 203.00     | 91113.  | 131.20 | 6.7 | 72.0          | 78832.  | 50.0             | 54744.  | 22.71          | 24865.         | 925.0          | 1012771. |
| 3/ 6/74  | 161.00     | 72262.  | 104.06 | 6.7 | 54.0          | 46291.  | 60.0             | 52102.  | 29.99          | 26042.         | 600.0          | 521015.  |
| 4/ 3/74  | 262.00     | 117594. | 169.34 | 6.3 | 80.0          | 113048. | 32.0             | 45219.  | 21.43          | 30283.         | 600.0          | 847864.  |
| 5/ 9/74  | 178.00     | 79892.  | 115.04 | 6.8 | 14.0          | 13441.  | 94.0             | 90245.  | 19.50          | 18721.         | 650.0          | 624032.  |
| 6/11/74  | 154.00     | 69120.  | 99.53  | 6.7 | 8.0           | 6645.   | 132.0            | 109640. | 20.00          | 16612.         | 725.0          | 602188.  |
| 7/ 9/74  | 152.00     | 68223.  | 98.24  | 6.7 | 68.0          | 55748.  | 62.0             | 50829.  | 16.50          | 13527.         | 1050.0         | 860808.  |
| 8/13/74  | 101.00     | 45332.  | 65.28  | 6.9 | 30.0          | 16342.  | 114.0            | 62101.  | 20.00          | 10895.         | 950.0          | 517510.  |
| 9/11/74  | 119.00     | 53411.  | 76.91  | 6.8 | 36.0          | 23106.  | 64.0             | 41077.  | 17.60          | 11296.         | 1050.0         | 673922.  |
| 10/ 9/74 | 105.00     | 47576.  | 68.51  | 6.2 | 42.0          | 24012.  | 30.0             | 17151.  | 20.80          | 11892.         | 1475.0         | 843279.  |
| MINIMUM  | 101.00     | 45332.  | 65.28  | 6.0 | 8.0           | 6645.   | 12.0             | 11585.  | 16.50          | 10895.         | 450.0          | 434449.  |
| MAXIMUM  | 262.00     | 117594. | 169.34 | 6.9 | 80.0          | 113048. | 132.0            | 109640. | 29.99          | 31759.         | 1475.0         | 1012771. |
| AVERAGE  | 164.67     | 73908.  | 106.43 | 6.5 | 47.5          | 44984.  | 59.5             | 49591.  | 22.51          | 20268.         | 834.6          | 700570.  |

SAMPLE PCINT NO. 44 LITTLE MAHANDY CREEK  
 =====

| DATE     | ---FLOW--- |        |       | PH  | ---ACIDITY--- |        | ---ALKALINITY--- |        | TOTAL<br>CONC. | IRON<br>LB/DAY | ---SULFATES--- |        |
|----------|------------|--------|-------|-----|---------------|--------|------------------|--------|----------------|----------------|----------------|--------|
|          | CFS        | GPM    | MGD   |     | CONC.         | LB/DAY | CONC.            | LB/DAY |                |                | CONC.          | LB/DAY |
| 11/ 8/73 | 11.40      | 5117.  | 7.37  | 6.7 | 6.0           | 369.   | 24.0             | 1476.  | 0.22           | 14.            | 40.0           | 2459.  |
| 12/13/73 | 37.30      | 16741. | 24.11 | 6.7 | 12.0          | 2414.  | 10.0             | 2012.  | 0.15           | 30.            | 5.0            | 1006.  |
| 1/11/74  | 21.50      | 9650.  | 13.90 | 6.7 | 2.0           | 232.   | 12.0             | 1392.  | 0.15           | 17.            | 11.0           | 1276.  |
| 2/ 6/74  | 21.50      | 9650.  | 13.90 | 7.0 | 14.0          | 1623.  | 16.0             | 1855.  | 0.15           | 17.            | 13.0           | 1507.  |
| 3/ 6/74  | 22.60      | 10144. | 14.61 | 7.4 | 4.0           | 488.   | 26.0             | 3169.  | 0.15           | 18.            | 50.0           | 6095.  |
| 4/ 3/74  | 54.60      | 24506. | 35.29 | 6.8 | 4.0           | 1178.  | 22.0             | 6479.  | 0.00           | 0.             | 30.0           | 8835.  |
| 5/ 9/74  | 9.46       | 4246.  | 6.11  | 7.3 | 4.0           | 204.   | 22.0             | 1123.  | 0.10           | 5.             | 150.0          | 7653.  |
| 6/11/74  | 11.90      | 5296.  | 7.63  | 7.4 | 2.0           | 127.   | 28.0             | 1782.  | 0.30           | 19.            | 7.0            | 446.   |
| 7/ 9/74  | 9.97       | 4430.  | 6.38  | 7.4 | 10.0          | 532.   | 24.0             | 1278.  | 0.10           | 5.             | 175.0          | 9316.  |
| 8/13/74  | 5.66       | 2540.  | 3.66  | 7.8 | 2.0           | 61.    | 36.0             | 1099.  | 0.10           | 3.             | 45.0           | 1374.  |
| 9/11/74  | 11.40      | 5117.  | 7.37  | 8.0 | 8.0           | 492.   | 16.0             | 984.   | 0.20           | 12.            | 225.0          | 13834. |
| 10/ 9/74 | 6.16       | 2765.  | 3.98  | 6.5 | 4.0           | 133.   | 30.0             | 997.   | 0.00           | 0.             | 275.0          | 9137.  |
| MINIMUM  | 5.66       | 2540.  | 3.66  | 6.5 | 2.0           | 61.    | 10.0             | 984.   | 0.00           | 0.             | 5.0            | 446.   |
| MAXIMUM  | 54.60      | 24506. | 35.29 | 8.0 | 14.0          | 2414.  | 36.0             | 6479.  | 0.30           | 30.            | 275.0          | 13834. |
| AVERAGE  | 18.60      | 8350.  | 12.02 | 7.1 | 6.0           | 654.   | 22.2             | 1970.  | 0.13           | 12.            | 85.5           | 5245.  |



SAMPLE PCINT NO. 45 RATTILING RUN  
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| DATE     | -----FLOW----- |        |       | PH  | ----ACIDITY---- |        | ---ALKALINITY--- |        | --TOTAL IRON-- |        | ---SULFATES--- |        |
|----------|----------------|--------|-------|-----|-----------------|--------|------------------|--------|----------------|--------|----------------|--------|
|          | CFS            | GPM    | MGD   |     | CONC.           | LB/DAY | CONC.            | LB/DAY | CONC.          | LB/DAY | CONC.          | LB/DAY |
| 11/ 8/73 | 6.42           | 2882.  | 4.15  | 6.6 | 5.0             | 173.   | 6.0              | 208.   | 0.10           | 3.     | 27.0           | 935.   |
| 12/13/73 | 22.30          | 10009. | 14.41 | 6.6 | 4.0             | 421.   | 4.0              | 481.   | 0.29           | 35.    | 40.0           | 4811.  |
| 1/11/74  | 14.60          | 6553.  | 9.44  | 6.7 | 4.0             | 315.   | 8.0              | 630.   | 0.15           | 12.    | 7.0            | 551.   |
| 2/ 6/74  | 10.40          | 4668.  | 6.72  | 7.2 | 6.0             | 337.   | 8.0              | 449.   | 0.00           | 0.     | 7.0            | 393.   |
| 3/ 6/74  | 9.21           | 4134.  | 5.95  | 7.4 | 6.0             | 298.   | 18.0             | 894.   | 0.15           | 7.     | 8.0            | 397.   |
| 4/ 3/74  | 23.80          | 10682. | 15.38 | 7.2 | 4.0             | 513.   | 6.0              | 770.   | 0.00           | 0.     | 35.0           | 4493.  |
| 5/ 9/74  | 4.05           | 1818.  | 2.62  | 7.5 | 4.0             | 87.    | 10.0             | 218.   | 0.20           | 4.     | 35.0           | 765.   |
| 6/11/74  | 5.76           | 2585.  | 3.72  | 7.3 | 2.0             | 62.    | 8.0              | 249.   | 0.00           | 0.     | 6.0            | 186.   |
| 7/ 9/74  | 5.70           | 2558.  | 3.68  | 7.5 | 18.0            | 553.   | 10.0             | 307.   | 0.50           | 15.    | 200.0          | 6149.  |
| 8/13/74  | 5.92           | 2657.  | 3.83  | 7.9 | 2.0             | 64.    | 12.0             | 333.   | 0.00           | 0.     | 225.0          | 7184.  |
| 9/11/74  | 8.02           | 3600.  | 5.18  | 8.3 | 12.0            | 519.   | 20.0             | 865.   | 0.50           | 22.    | 175.0          | 7570.  |
| 10/ 9/74 | 2.50           | 1122.  | 1.62  | 6.7 | 4.0             | 54.    | 14.0             | 189.   | 0.00           | 0.     | 250.0          | 3371.  |
| MINIMUM  | 2.50           | 1122.  | 1.62  | 6.6 | 2.0             | 54.    | 4.0              | 189.   | 0.00           | 0.     | 6.0            | 186.   |
| MAXIMUM  | 23.80          | 10682. | 15.38 | 8.3 | 18.0            | 553.   | 20.0             | 894.   | 0.50           | 35.    | 250.0          | 7570.  |
| AVERAGE  | 9.89           | 4439.  | 6.39  | 7.2 | 5.9             | 288.   | 10.3             | 470.   | 0.16           | 8.     | 84.6           | 3067.  |

SAMPLE PCINT NO. 46 LITTLE MAHANCY CREEK BELOW RATTILING RUN  
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| DATE     | -----FLOW----- |        |       | PH  | ----ACIDITY---- |        | ---ALKALINITY--- |        | --TOTAL IRON-- |        | ---SULFATES--- |         |
|----------|----------------|--------|-------|-----|-----------------|--------|------------------|--------|----------------|--------|----------------|---------|
|          | CFS            | GPM    | MGD   |     | CONC.           | LB/DAY | CONC.            | LB/DAY | CONC.          | LB/DAY | CONC.          | LB/DAY  |
| 11/ 8/73 | 15.50          | 6957.  | 10.02 | 6.6 | 6.0             | 502.   | 17.0             | 1421.  | 0.15           | 13.    | 23.0           | 1923.   |
| 12/13/73 | 66.20          | 29713. | 42.79 | 6.6 | 12.0            | 4285.  | 6.0              | 2142.  | 0.15           | 54.    | 9.0            | 3213.   |
| 1/11/74  | 33.40          | 14991. | 21.59 | 6.6 | 4.0             | 721.   | 12.0             | 2162.  | 0.15           | 27.    | 9.0            | 1621.   |
| 2/ 6/74  | 30.00          | 13455. | 19.39 | 7.1 | 4.0             | 647.   | 14.0             | 2265.  | 0.15           | 24.    | 9.0            | 1456.   |
| 3/ 6/74  | 25.50          | 11445. | 16.48 | 7.4 | 6.0             | 825.   | 18.0             | 2476.  | 0.29           | 40.    | 9.0            | 1238.   |
| 4/ 3/74  | 85.30          | 38285. | 55.13 | 7.0 | 2.0             | 920.   | 12.0             | 5521.  | 0.00           | 0.     | 225.0          | 103515. |
| 5/ 9/74  | 19.60          | 8797.  | 12.67 | 7.3 | 4.0             | 423.   | 18.0             | 1903.  | 0.30           | 32.    | 30.0           | 3171.   |
| 6/11/74  | 15.60          | 7002.  | 10.08 | 7.3 | 2.0             | 168.   | 22.0             | 1851.  | 0.20           | 17.    | 6.0            | 505.    |
| 7/ 9/74  | 13.90          | 6239.  | 8.99  | 7.4 | 24.0            | 1799.  | 16.0             | 1200.  | 0.10           | 7.     | 35.0           | 2624.   |
| 8/13/74  | 11.60          | 5206.  | 7.50  | 7.6 | 2.0             | 125.   | 22.0             | 1376.  | 0.00           | 0.     | 225.0          | 14077.  |
| 9/11/74  | 21.20          | 9515.  | 13.70 | 8.0 | 10.0            | 1143.  | 6.0              | 686.   | 0.00           | 0.     | 175.0          | 20010.  |
| 10/ 9/74 | 7.46           | 3348.  | 4.82  | 6.6 | 4.0             | 161.   | 10.0             | 402.   | 0.30           | 12.    | 250.0          | 10059.  |
| MINIMUM  | 7.46           | 3348.  | 4.82  | 6.6 | 2.0             | 125.   | 6.0              | 402.   | 0.00           | 0.     | 6.0            | 505.    |
| MAXIMUM  | 85.30          | 38285. | 55.13 | 8.0 | 24.0            | 4285.  | 22.0             | 5521.  | 0.30           | 54.    | 250.0          | 103515. |
| AVERAGE  | 28.77          | 12914. | 18.60 | 7.1 | 6.7             | 977.   | 14.4             | 1950.  | 0.15           | 19.    | 83.8           | 13618.  |

SAMPLE PCINT NO. 47 MAHANCY CREEK AND LITTLE MAHANCY CREEK CONFLUENCE  
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| DATE     | -----FLOW----- |         |        | PH  | ----ACIDITY---- |         | ---ALKALINITY--- |        | --TOTAL IRON-- |        | ---SULFATES--- |         |
|----------|----------------|---------|--------|-----|-----------------|---------|------------------|--------|----------------|--------|----------------|---------|
|          | CFS            | GPM     | MGD    |     | CONC.           | LB/DAY  | CONC.            | LB/DAY | CONC.          | LB/DAY | CONC.          | LB/DAY  |
| 11/ 8/73 | 144.00         | 64632.  | 93.07  | 6.3 | 50.0            | 38833.  | 31.0             | 24077. | 21.58          | 16761. | 900.0          | 699002. |
| 12/13/73 | 231.00         | 103680. | 149.30 | 5.9 | 90.0            | 112132. | 2.0              | 2492.  | 27.37          | 34100. | 400.0          | 498362. |
| 1/11/74  | 239.00         | 107271. | 154.47 | 6.6 | 44.0            | 56718.  | 24.0             | 30937. | 29.44          | 37950. | 575.0          | 741207. |
| 2/ 6/74  | 220.00         | 98743.  | 142.19 | 6.9 | 46.0            | 54523.  | 44.0             | 52209. | 29.44          | 34933. | 825.0          | 978927. |
| 3/ 6/74  | 152.00         | 68223.  | 98.24  | 6.8 | 34.0            | 27874.  | 46.0             | 37712. | 15.20          | 12461. | 400.0          | 327927. |
| 4/ 4/74  | 333.00         | 149461. | 215.22 | 6.8 | 20.0            | 35921.  | 20.0             | 35921. | 10.95          | 19667. | 400.0          | 718419. |
| 5/ 9/74  | 192.00         | 86176.  | 124.09 | 6.7 | 20.0            | 20711.  | 88.0             | 91129. | 17.25          | 17863. | 950.0          | 983781. |
| 6/12/74  | 167.00         | 74955.  | 107.94 | 7.0 | 40.0            | 36029.  | 76.0             | 68455. | 21.30          | 19636. | 550.0          | 495396. |
| 7/ 9/74  | 170.00         | 76302.  | 109.87 | 6.7 | 46.0            | 42177.  | 54.0             | 49513. | 13.00          | 11920. | 950.0          | 871055. |
| 8/13/74  | 120.00         | 53860.  | 77.56  | 6.9 | 22.0            | 14239.  | 76.0             | 49189. | 16.70          | 10809. | 900.0          | 582502. |
| 9/11/74  | 141.00         | 63285.  | 91.13  | 7.1 | 24.0            | 18252.  | 30.0             | 22815. | 13.10          | 9962.  | 850.0          | 646415. |
| 10/ 9/74 | 115.00         | 51616.  | 74.33  | 6.5 | 34.0            | 21029.  | 26.0             | 16127. | 21.50          | 13336. | 1000.0         | 620257. |
| MINIMUM  | 115.00         | 51616.  | 74.33  | 5.9 | 20.0            | 14239.  | 2.0              | 2492.  | 10.95          | 9962.  | 400.0          | 327927. |
| MAXIMUM  | 333.00         | 149461. | 215.22 | 7.1 | 90.0            | 112132. | 88.0             | 91129. | 29.44          | 37950. | 1000.0         | 983781. |
| AVERAGE  | 185.33         | 93184.  | 119.78 | 6.7 | 39.2            | 39880.  | 43.1             | 40048. | 19.78          | 19950. | 725.0          | 680270. |

SAMPLE POINT NO. 48 BIG RUN NO. 1 DISCHARGE  
 =====

| DATE     | ---FLOW--- |      |      | PH  | ---ACIDITY--- |        | ---ALKALINITY--- |        | TOTAL<br>CONC. | IRON<br>LB/DAY | ---SULFATES--- |        |
|----------|------------|------|------|-----|---------------|--------|------------------|--------|----------------|----------------|----------------|--------|
|          | CFS        | GPM  | MGD  |     | CONC.         | LB/DAY | CONC.            | LB/DAY |                |                | CONC.          | LB/DAY |
| 11/ 8/73 | 0.24       | 108. | 0.16 | 6.5 | 130.0         | 168.   | 401.0            | 519.   | 36.83          | 48.            | 1265.0         | 1637.  |
| 12/12/73 | 0.27       | 121. | 0.17 | 6.1 | 134.0         | 195.   | 478.0            | 696.   | 30.25          | 44.            | 1400.0         | 2039.  |
| 1/ 7/74  | 0.34       | 153. | 0.22 | 6.0 | 124.0         | 227.   | 658.0            | 1207.  | 35.87          | 66.            | 1050.0         | 1925.  |
| 2/ 6/74  | 0.36       | 162. | 0.23 | 6.6 | 186.0         | 361.   | 628.0            | 1219.  | 29.99          | 58.            | 1300.0         | 2524.  |
| 3/ 6/74  | 0.32       | 144. | 0.21 | 6.6 | 154.0         | 266.   | 676.0            | 1167.  | 29.99          | 52.            | 850.0          | 1467.  |
| 4/ 4/74  | 0.36       | 162. | 0.23 | 6.5 | 20.0          | 39.    | 710.0            | 1379.  | 26.67          | 52.            | 1100.0         | 2136.  |
| 5/ 9/74  | 0.29       | 130. | 0.19 | 6.8 | 30.0          | 47.    | 622.0            | 973.   | 29.80          | 47.            | 1375.0         | 2151.  |
| 6/12/74  | 0.22       | 99.  | 0.14 | 6.6 | 154.0         | 183.   | 690.0            | 819.   | 31.20          | 37.            | 1000.0         | 1187.  |
| 7/10/74  | 0.37       | 166. | 0.24 | 6.6 | 224.0         | 447.   | 640.0            | 1277.  | 30.20          | 60.            | 1550.0         | 3093.  |
| 8/13/74  | 0.28       | 126. | 0.18 | 6.7 | 44.0          | 66.    | 614.0            | 927.   | 34.60          | 52.            | 1475.0         | 2228.  |
| 9/12/74  | 0.28       | 126. | 0.18 | 6.4 | 140.0         | 211.   | 388.0            | 586.   | 34.80          | 53.            | 1775.0         | 2681.  |
| 10/10/74 | 0.28       | 126. | 0.18 | 6.4 | 236.0         | 356.   | 328.0            | 495.   | 34.70          | 52.            | 1725.0         | 2605.  |
| MINIMUM  | 0.22       | 99.  | 0.14 | 6.0 | 20.0          | 39.    | 328.0            | 495.   | 26.67          | 37.            | 850.0          | 1187.  |
| MAXIMUM  | 0.37       | 166. | 0.24 | 6.8 | 236.0         | 447.   | 710.0            | 1379.  | 36.83          | 66.            | 1775.0         | 3093.  |
| AVERAGE  | 0.30       | 135. | 0.19 | 6.5 | 131.3         | 214.   | 569.4            | 939.   | 32.07          | 52.            | 1322.1         | 2139.  |

SAMPLE POINT NO. 49 BIG RUN NO. 2 DISCHARGE  
 =====

| DATE     | ---FLOW--- |       |      | PH  | ---ACIDITY--- |        | ---ALKALINITY--- |        | TOTAL<br>CONC. | IRON<br>LB/DAY | ---SULFATES--- |        |
|----------|------------|-------|------|-----|---------------|--------|------------------|--------|----------------|----------------|----------------|--------|
|          | CFS        | GPM   | MGD  |     | CONC.         | LB/DAY | CONC.            | LB/DAY |                |                | CONC.          | LB/DAY |
| 11/ 8/73 | 2.35       | 1055. | 1.52 | 6.5 | 80.0          | 1014.  | 307.0            | 3891.  | 19.51          | 247.           | 815.0          | 10330. |
| 12/12/73 | 3.80       | 1706. | 2.46 | 6.3 | 80.0          | 1640.  | 400.0            | 8198.  | 20.97          | 430.           | 650.0          | 13322. |
| 1/ 7/74  | 5.70       | 2558. | 3.68 | 6.1 | 56.0          | 1722.  | 532.0            | 16355. | 30.75          | 945.           | 1100.0         | 33817. |
| 2/ 6/74  | 7.12       | 3196. | 4.60 | 6.6 | 88.0          | 3379.  | 554.0            | 21275. | 24.70          | 949.           | 950.0          | 36482. |
| 3/ 6/74  | 6.50       | 2917. | 4.20 | 6.5 | 88.0          | 3085.  | 458.0            | 16057. | 35.67          | 1251.          | 675.0          | 23664. |
| 4/ 4/74  | 7.50       | 3366. | 4.85 | 6.5 | 90.0          | 3641.  | 456.0            | 18446. | 28.10          | 1137.          | 975.0          | 39440. |
| 5/ 9/74  | 5.70       | 2558. | 3.68 | 6.9 | 4.0           | 123.   | 389.0            | 11959. | 25.50          | 784.           | 950.0          | 29206. |
| 6/12/74  | 3.90       | 1750. | 2.52 | 6.6 | 80.0          | 1683.  | 394.0            | 8288.  | 29.90          | 629.           | 675.0          | 14198. |
| 7/10/74  | 2.85       | 1279. | 1.84 | 6.5 | 158.0         | 2429.  | 398.0            | 6118.  | 28.40          | 437.           | 650.0          | 9992.  |
| 8/13/74  | 4.00       | 1795. | 2.59 | 6.6 | 102.0         | 2201.  | 416.0            | 8975.  | 37.60          | 811.           | 975.0          | 21035. |
| 9/12/74  | 2.50       | 1122. | 1.62 | 6.5 | 128.0         | 1726.  | 222.0            | 2993.  | 29.30          | 395.           | 1100.0         | 14832. |
| 10/10/74 | 0.25       | 112.  | 0.16 | 6.4 | 100.0         | 135.   | 202.0            | 272.   | 21.10          | 28.            | 850.0          | 1146.  |
| MINIMUM  | 0.25       | 112.  | 0.16 | 6.1 | 4.0           | 123.   | 202.0            | 272.   | 19.51          | 28.            | 650.0          | 1146.  |
| MAXIMUM  | 7.50       | 3366. | 4.85 | 6.9 | 158.0         | 3641.  | 554.0            | 21275. | 37.60          | 1251.          | 1100.0         | 39440. |
| AVERAGE  | 4.35       | 1951. | 2.81 | 6.5 | 87.8          | 1898.  | 394.0            | 10236. | 27.62          | 670.           | 863.8          | 20622. |

SAMPLE POINT NO. 50 BIG RUN BELOW DISCHARGES  
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| DATE     | ---FLOW--- |       |      | PH  | ---ACIDITY--- |        | ---ALKALINITY--- |        | TOTAL<br>CONC. | IRON<br>LB/DAY | ---SULFATES--- |        |
|----------|------------|-------|------|-----|---------------|--------|------------------|--------|----------------|----------------|----------------|--------|
|          | CFS        | GPM   | MGD  |     | CONC.         | LB/DAY | CONC.            | LB/DAY |                |                | CONC.          | LB/DAY |
| 11/ 8/73 | 4.62       | 2074. | 2.99 | 7.3 | 30.0          | 748.   | 247.0            | 6155.  | 21.71          | 541.           | 790.0          | 19685. |
| 12/12/73 | 4.11       | 1845. | 2.66 | 6.7 | 0.0           | 0.     | 250.0            | 5542.  | 18.89          | 419.           | 600.0          | 13300. |
| 1/ 9/74  | 6.36       | 3079. | 4.43 | 7.1 | 0.0           | 0.     | 428.0            | 15836. | 26.44          | 978.           | 900.0          | 33300. |
| 2/ 6/74  | 8.00       | 3591. | 5.17 | 7.0 | 54.0          | 2330.  | 400.0            | 17259. | 30.59          | 1320.          | 725.0          | 31283. |
| 3/ 6/74  | 4.34       | 1948. | 2.81 | 7.2 | 52.0          | 1217.  | 386.0            | 9035.  | 19.80          | 463.           | 1025.0         | 23993. |
| 4/ 4/74  | 12.20      | 5476. | 7.89 | 7.0 | 22.0          | 1448.  | 258.0            | 16977. | 20.00          | 1316.          | 625.0          | 41126. |
| 5/ 9/74  | 4.29       | 1925. | 2.77 | 7.4 | 26.0          | 602.   | 330.0            | 7636.  | 18.90          | 437.           | 825.0          | 19089. |
| 6/12/74  | 2.80       | 1257. | 1.81 | 7.4 | 0.0           | 0.     | 342.0            | 5165.  | 17.40          | 263.           | 475.0          | 7173.  |
| 7/10/74  | 4.06       | 1822. | 2.62 | 7.4 | 64.0          | 1401.  | 370.0            | 8102.  | 20.00          | 438.           | 1150.0         | 25182. |
| 8/13/74  | 3.92       | 1759. | 2.53 | 7.4 | 32.0          | 677.   | 364.0            | 7696.  | 19.20          | 406.           | 950.0          | 20936. |
| 9/12/74  | 3.30       | 1481. | 2.13 | 7.4 | 34.0          | 605.   | 230.0            | 4094.  | 19.10          | 340.           | 1050.0         | 18689. |
| 10/10/74 | 2.10       | 943.  | 1.36 | 6.7 | 28.0          | 317.   | 194.0            | 2197.  | 11.60          | 131.           | 850.0          | 9627.  |
| MINIMUM  | 2.10       | 943.  | 1.36 | 6.7 | 0.0           | 0.     | 194.0            | 2197.  | 11.60          | 131.           | 475.0          | 7173.  |
| MAXIMUM  | 12.20      | 5476. | 7.89 | 7.4 | 64.0          | 2330.  | 428.0            | 17259. | 30.59          | 1320.          | 1150.0         | 41126. |
| AVERAGE  | 6.05       | 2267. | 3.26 | 7.2 | 28.5          | 775.   | 316.6            | 8808.  | 20.30          | 588.           | 830.4          | 21878. |

SAMPLE POINT NO. 51 BIG RUN AT CONFLUENCE WITH MAHANDY CREEK

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| DATE     | ---FLOW--- |        |       | PH  | ---ACIDITY--- |        | ---ALKALINITY--- |        | TOTAL<br>CONC. | IRON<br>LB/DAY | ---SULFATES--- |        |
|----------|------------|--------|-------|-----|---------------|--------|------------------|--------|----------------|----------------|----------------|--------|
|          | CFS        | GPM    | MGD   |     | CONC.         | LB/DAY | CONC.            | LB/DAY |                |                | CONC.          | LB/DAY |
| 11/ 8/73 | 2.96       | 1329.  | 1.91  | 7.6 | 0.0           | 0.     | 182.0            | 2906.  | 2.62           | 42.            | 565.0          | 9020.  |
| 12/12/73 | 15.00      | 6732.  | 9.69  | 6.7 | 0.0           | 0.     | 136.0            | 11003. | 5.57           | 451.           | 300.0          | 24271. |
| 1/ 9/74  | 9.79       | 4394.  | 6.33  | 7.4 | 0.0           | 0.     | 304.0            | 16052. | 13.59          | 718.           | 675.0          | 35642. |
| 2/ 6/74  | 13.50      | 6059.  | 8.73  | 7.2 | 0.0           | 0.     | 308.0            | 22426. | 17.86          | 1300.          | 600.0          | 43688. |
| 3/ 6/74  | 8.52       | 3824.  | 5.51  | 7.7 | 0.0           | 0.     | 260.0            | 11948. | 12.18          | 560.           | 400.0          | 18381. |
| 4/ 4/74  | 22.60      | 10144. | 14.61 | 7.3 | 16.0          | 1950.  | 140.0            | 17065. | 13.57          | 1654.          | 275.0          | 33521. |
| 5/ 9/74  | 11.80      | 5296.  | 7.63  | 7.5 | 0.0           | 0.     | 194.0            | 12347. | 3.50           | 223.           | 475.0          | 30231. |
| 6/12/74  | 2.23       | 1001.  | 1.44  | 7.8 | 0.0           | 0.     | 248.0            | 2983.  | 6.10           | 73.            | 450.0          | 5412.  |
| 7/10/74  | 6.31       | 2832.  | 4.08  | 7.7 | 42.0          | 1429.  | 270.0            | 9189.  | 13.20          | 449.           | 950.0          | 32332. |
| 8/13/74  | 4.88       | 2190.  | 3.15  | 7.6 | 0.0           | 0.     | 294.0            | 7739.  | 11.70          | 308.           | 850.0          | 22372. |
| 9/12/74  | 2.73       | 1248.  | 1.80  | 7.7 | 0.0           | 0.     | 168.0            | 2519.  | 8.50           | 127.           | 925.0          | 13869. |
| 10/10/74 | 2.50       | 1122.  | 1.62  | 6.8 | 0.0           | 0.     | 186.0            | 2508.  | 11.50          | 155.           | 875.0          | 11798. |
| MINIMUM  | 2.23       | 1001.  | 1.44  | 6.7 | 0.0           | 0.     | 136.0            | 2508.  | 2.62           | 42.            | 275.0          | 5412.  |
| MAXIMUM  | 22.60      | 10144. | 14.61 | 7.8 | 42.0          | 1950.  | 308.0            | 22426. | 17.86          | 1654.          | 950.0          | 43688. |
| AVERAGE  | 8.57       | 3848.  | 5.54  | 7.4 | 4.8           | 282.   | 224.2            | 9890.  | 9.99           | 505.           | 611.7          | 23378. |

SAMPLE POINT NO. 52 MAHANDY CREEK BELOW BIG RUN

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| DATE     | ---FLOW--- |         |        | PH  | ---ACIDITY--- |        | ---ALKALINITY--- |        | TOTAL<br>CONC. | IRON<br>LB/DAY | ---SULFATES--- |          |
|----------|------------|---------|--------|-----|---------------|--------|------------------|--------|----------------|----------------|----------------|----------|
|          | CFS        | GPM     | MGD    |     | CONC.         | LB/DAY | CONC.            | LB/DAY |                |                | CONC.          | LB/DAY   |
| 11/ 8/73 | 122.00     | 54758.  | 78.85  | 6.6 | 20.0          | 13160. | 36.0             | 23688. | 23.66          | 15569.         | 715.0          | 470478.  |
| 12/12/73 | 251.00     | 112657. | 162.23 | 6.1 | 0.0           | 0.     | 12.0             | 16245. | 14.35          | 19427.         | 395.0          | 534742.  |
| 1/ 9/74  | 263.00     | 118043. | 169.98 | 6.9 | 30.0          | 42555. | 38.0             | 53903. | 26.44          | 37505.         | 850.0          | 1205724. |
| 2/ 6/74  | 248.00     | 111311. | 160.29 | 7.0 | 0.0           | 0.     | 50.0             | 66880. | 19.80          | 26484.         | 600.0          | 802558.  |
| 3/ 6/74  | 235.00     | 105476. | 151.89 | 6.9 | 50.0          | 63374. | 48.0             | 60839. | 18.86          | 23905.         | 525.0          | 665427.  |
| 4/ 4/74  | 361.00     | 162029. | 233.32 | 6.8 | 24.0          | 46730. | 32.0             | 62306. | 13.10          | 25507.         | 330.0          | 642532.  |
| 5/ 9/74  | 201.00     | 90215.  | 129.91 | 6.9 | 60.0          | 65046. | 92.0             | 99737. | 15.30          | 16587.         | 900.0          | 975691.  |
| 6/12/74  | 170.00     | 76302.  | 109.87 | 7.0 | 30.0          | 27507. | 74.0             | 67851. | 21.30          | 19530.         | 725.0          | 664753.  |
| 7/10/74  | 179.00     | 80341.  | 115.69 | 6.9 | 54.0          | 52134. | 62.0             | 59857. | 19.30          | 18633.         | 925.0          | 893034.  |
| 8/13/74  | 130.00     | 58348.  | 84.02  | 6.9 | 28.0          | 15632. | 80.0             | 56093. | 16.30          | 11429.         | 950.0          | 666102.  |
| 9/12/74  | 145.00     | 65081.  | 93.72  | 7.0 | 38.0          | 29718. | 30.0             | 23462. | 12.60          | 9854.          | 775.0          | 606099.  |
| 10/10/74 | 126.00     | 56553.  | 81.44  | 6.3 | 28.0          | 19028. | 66.0             | 44853. | 16.90          | 11485.         | 1100.0         | 747544.  |
| MINIMUM  | 122.00     | 54758.  | 78.85  | 6.1 | 0.0           | 0.     | 12.0             | 16245. | 12.60          | 9854.          | 330.0          | 470478.  |
| MAXIMUM  | 361.00     | 162029. | 233.32 | 7.0 | 60.0          | 65046. | 92.0             | 99737. | 26.44          | 37505.         | 1100.0         | 1205724. |
| AVERAGE  | 202.58     | 90926.  | 130.93 | 6.8 | 30.2          | 31574. | 51.7             | 52976. | 18.16          | 19659.         | 732.5          | 739557.  |

SAMPLE POINT NO. 53 MOWRY DISCHARGE

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| DATE     | ---FLOW--- |      |      | PH  | ---ACIDITY--- |        | ---ALKALINITY--- |        | TOTAL<br>CONC. | IRON<br>LB/DAY | ---SULFATES--- |        |
|----------|------------|------|------|-----|---------------|--------|------------------|--------|----------------|----------------|----------------|--------|
|          | CFS        | GPM  | MGD  |     | CONC.         | LB/DAY | CONC.            | LB/DAY |                |                | CONC.          | LB/DAY |
| 11/ 8/73 | 0.06       | 27.  | 0.04 | 3.4 | 75.0          | 24.    | 0.0              | 0.     | 3.72           | 1.             | 150.0          | 49.    |
| 12/12/73 | 0.20       | 90.  | 0.13 | 3.3 | 74.0          | 80.    | 0.0              | 0.     | 5.36           | 6.             | 110.0          | 119.   |
| 1/ 9/74  | 0.31       | 139. | 0.20 | 4.0 | 48.0          | 80.    | 0.0              | 0.     | 5.15           | 9.             | 150.0          | 251.   |
| 2/ 6/74  | 0.39       | 175. | 0.25 | 3.9 | 60.0          | 126.   | 0.0              | 0.     | 4.35           | 9.             | 102.0          | 215.   |
| 3/ 6/74  | 0.31       | 139. | 0.20 | 3.9 | 42.0          | 70.    | 0.0              | 0.     | 1.68           | 3.             | 225.0          | 376.   |
| 4/ 4/74  | 0.57       | 256. | 0.37 | 3.9 | 44.0          | 135.   | 0.0              | 0.     | 8.57           | 26.            | 200.0          | 615.   |
| 5/ 9/74  | 0.17       | 76.  | 0.11 | 4.8 | 50.0          | 46.    | 0.0              | 0.     | 1.90           | 2.             | 225.0          | 206.   |
| 6/12/74  | 0.17       | 76.  | 0.11 | 3.7 | 48.0          | 44.    | 0.0              | 0.     | 5.20           | 5.             | 175.0          | 160.   |
| 7/10/74  | 0.17       | 76.  | 0.11 | 3.6 | 74.0          | 68.    | 0.0              | 0.     | 3.50           | 3.             | 175.0          | 160.   |
| 8/14/74  | 0.06       | 27.  | 0.04 | 3.6 | 58.0          | 19.    | 0.0              | 0.     | 7.00           | 2.             | 225.0          | 73.    |
| 9/12/74  | 0.09       | 40.  | 0.06 | 3.4 | 64.0          | 31.    | 0.0              | 0.     | 6.80           | 3.             | 200.0          | 97.    |
| 10/10/74 | 0.06       | 27.  | 0.04 | 3.4 | 52.0          | 17.    | 0.0              | 0.     | 5.60           | 2.             | 325.0          | 105.   |
| MINIMUM  | 0.06       | 27.  | 0.04 | 3.3 | 42.0          | 17.    | 0.0              | 0.     | 1.68           | 1.             | 102.0          | 49.    |
| MAXIMUM  | 0.57       | 256. | 0.37 | 4.8 | 75.0          | 135.   | 0.0              | 0.     | 8.57           | 26.            | 325.0          | 615.   |
| AVERAGE  | 0.21       | 96.  | 0.14 | 3.7 | 57.4          | 62.    | 0.0              | 0.     | 4.91           | 6.             | 188.5          | 202.   |

SAMPLE POINT NO. 54 HELFENSTEIN TUNNEL DISCHARGE

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| DATE     | ---FLOW--- |       |      | PH  | ---ACIDITY--- |        | ---ALKALINITY--- |        | TOTAL<br>CONC. | IRON<br>LB/DAY | ---SULFATES--- |        |
|----------|------------|-------|------|-----|---------------|--------|------------------|--------|----------------|----------------|----------------|--------|
|          | CFS        | GPM   | MGD  |     | CONC.         | LB/DAY | CONC.            | LB/DAY |                |                | CONC.          | LB/DAY |
| 11/ 8/73 | 1.14       | 512.  | 0.74 | 6.4 | 22.0          | 135.   | 36.0             | 221.   | 26.01          | 160.           | 625.0          | 3843.  |
| 12/12/73 | 2.88       | 1293. | 1.86 | 6.1 | 42.0          | 652.   | 4.0              | 62.    | 16.90          | 263.           | 575.0          | 8932.  |
| 1/10/74  | 4.41       | 1979. | 2.85 | 6.6 | 22.0          | 523.   | 122.0            | 2902.  | 12.18          | 290.           | 475.0          | 11298. |
| 2/ 6/74  | 5.69       | 2554. | 3.68 | 6.4 | 26.0          | 798.   | 54.0             | 1657.  | 13.22          | 406.           | 475.0          | 14577. |
| 3/ 6/74  | 2.55       | 1145. | 1.65 | 6.8 | 26.0          | 358.   | 120.0            | 1650.  | 12.86          | 177.           | 350.0          | 4814.  |
| 4/ 4/74  | 6.53       | 2931. | 4.22 | 6.7 | 30.0          | 1057.  | 14.0             | 493.   | 10.00          | 352.           | 350.0          | 12327. |
| 5/ 9/74  | 2.59       | 1162. | 1.67 | 7.0 | 0.0           | 0.     | 158.0            | 2207.  | 10.10          | 141.           | 550.0          | 7683.  |
| 6/13/74  | 1.91       | 857.  | 1.23 | 7.1 | 36.0          | 371.   | 152.0            | 1566.  | 11.80          | 122.           | 325.0          | 3348.  |
| 7/10/74  | 2.00       | 898.  | 1.29 | 6.9 | 44.0          | 475.   | 96.0             | 1036.  | 11.90          | 128.           | 675.0          | 7281.  |
| 8/14/74  | 1.90       | 853.  | 1.23 | 7.3 | 18.0          | 184.   | 102.0            | 1045.  | 11.70          | 120.           | 675.0          | 6917.  |
| 9/12/74  | 0.83       | 373.  | 0.54 | 6.7 | 20.0          | 90.    | 70.0             | 313.   | 11.10          | 50.            | 750.0          | 3357.  |
| 10/10/74 | 0.92       | 413.  | 0.59 | 6.4 | 38.0          | 189.   | 60.0             | 298.   | 11.30          | 56.            | 750.0          | 3722.  |
| MINIMUM  | 0.83       | 373.  | 0.54 | 6.1 | 0.0           | 0.     | 4.0              | 62.    | 10.00          | 50.            | 325.0          | 3348.  |
| MAXIMUM  | 6.53       | 2931. | 4.22 | 7.3 | 44.0          | 1057.  | 158.0            | 2902.  | 26.01          | 406.           | 750.0          | 14577. |
| AVERAGE  | 2.78       | 1247. | 1.80 | 6.7 | 27.0          | 403.   | 82.3             | 1121.  | 13.26          | 189.           | 547.9          | 7342.  |

SAMPLE POINT NO. 55 MAHANCY CREEK BELOW HELFENSTEIN TUNNEL

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| DATE     | ---FLOW--- |         |        | PH  | ---ACIDITY--- |        | ---ALKALINITY--- |        | TOTAL<br>CONC. | IRON<br>LB/DAY | ---SULFATES--- |         |
|----------|------------|---------|--------|-----|---------------|--------|------------------|--------|----------------|----------------|----------------|---------|
|          | CFS        | GPM     | MGD    |     | CONC.         | LB/DAY | CONC.            | LB/DAY |                |                | CONC.          | LB/DAY  |
| 11/ 8/73 | 130.00     | 58348.  | 84.02  | 6.1 | 30.0          | 21035. | 25.0             | 17529. | 21.27          | 14914.         | 765.0          | 536387. |
| 12/12/73 | 286.00     | 128366. | 184.85 | 6.2 | 16.0          | 24681. | 14.0             | 21596. | 10.89          | 16798.         | 360.0          | 555318. |
| 1/10/74  | 270.00     | 121185. | 174.51 | 6.5 | 28.0          | 40775. | 36.0             | 52425. | 20.00          | 29125.         | 575.0          | 837346. |
| 2/ 6/74  | 273.00     | 122531. | 176.45 | 6.8 | 54.0          | 79511. | 50.0             | 73622. | 24.74          | 36428.         | 525.0          | 773028. |
| 3/ 6/74  | 267.00     | 119838. | 172.57 | 6.6 | 46.0          | 66243. | 42.0             | 60483. | 17.01          | 24496.         | 475.0          | 684035. |
| 4/ 4/74  | 375.00     | 168312. | 242.37 | 6.8 | 10.0          | 20226. | 24.0             | 48542. | 11.19          | 22633.         | 150.0          | 303386. |
| 5/ 9/74  | 198.00     | 88869.  | 127.97 | 7.1 | 22.0          | 23494. | 78.0             | 83298. | 14.90          | 15912.         | 825.0          | 881034. |
| 6/13/74  | 170.00     | 76302.  | 109.87 | 6.9 | 40.0          | 36676. | 80.0             | 73352. | 25.00          | 22923.         | 575.0          | 527218. |
| 7/10/74  | 181.00     | 81239.  | 116.98 | 6.9 | 44.0          | 42954. | 54.0             | 52716. | 17.80          | 17377.         | 850.0          | 829795. |
| 8/14/74  | 128.00     | 57451.  | 82.73  | 7.1 | 26.0          | 17950. | 108.0            | 74560. | 9.30           | 6420.          | 825.0          | 569557. |
| 9/12/74  | 145.00     | 65081.  | 93.72  | 7.1 | 22.0          | 17205. | 40.0             | 31282. | 11.30          | 8837.          | 825.0          | 645202. |
| 10/10/74 | 134.00     | 60144.  | 86.61  | 6.6 | 24.0          | 17346. | 60.0             | 43364. | 14.40          | 10407.         | 925.0          | 668529. |
| MINIMUM  | 128.00     | 57451.  | 82.73  | 6.1 | 10.0          | 17205. | 14.0             | 17529. | 9.30           | 6420.          | 150.0          | 303386. |
| MAXIMUM  | 375.00     | 168312. | 242.37 | 7.1 | 54.0          | 79511. | 108.0            | 83298. | 25.00          | 36428.         | 925.0          | 881034. |
| AVERAGE  | 213.08     | 95639.  | 137.72 | 6.7 | 30.2          | 34008. | 50.9             | 52731. | 16.48          | 18856.         | 639.6          | 650903. |

SAMPLE POINT NO. 56 DOUTYVILLE TUNNEL DISCHARGE

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| DATE     | ---FLOW--- |       |       | PH  | ---ACIDITY--- |        | ---ALKALINITY--- |        | TOTAL<br>CONC. | IRON<br>LB/DAY | ---SULFATES--- |        |
|----------|------------|-------|-------|-----|---------------|--------|------------------|--------|----------------|----------------|----------------|--------|
|          | CFS        | GPM   | MGD   |     | CONC.         | LB/DAY | CONC.            | LB/DAY |                |                | CONC.          | LB/DAY |
| 11/ 9/73 | 10.10      | 4533. | 6.53  | 3.7 | 140.0         | 7626.  | 0.0              | 0.     | 27.94          | 1522.          | 890.0          | 48482. |
| 12/13/73 | 14.90      | 6688. | 9.63  | 3.5 | 186.0         | 14948. | 0.0              | 0.     | 28.56          | 2295.          | 725.0          | 58264. |
| 1/10/74  | 16.30      | 7316. | 10.54 | 4.0 | 84.0          | 7385.  | 0.0              | 0.     | 22.52          | 1980.          | 525.0          | 46155. |
| 2/ 6/74  | 21.80      | 9785. | 14.09 | 3.9 | 134.0         | 15756. | 0.0              | 0.     | 21.85          | 2569.          | 675.0          | 79366. |
| 3/ 6/74  | 13.70      | 5149. | 8.85  | 3.7 | 204.0         | 15074. | 0.0              | 0.     | 19.80          | 1463.          | 550.0          | 40640. |
| 4/ 4/74  | 19.50      | 3752. | 12.60 | 3.5 | 110.0         | 11569. | 0.0              | 0.     | 14.52          | 1527.          | 425.0          | 44699. |
| 5/ 9/74  | 12.60      | 5655. | 8.14  | 4.6 | 152.0         | 10330. | 0.0              | 0.     | 18.90          | 1284.          | 850.0          | 57765. |
| 6/13/74  | 15.00      | 6732. | 9.69  | 3.8 | 172.0         | 13915. | 0.0              | 0.     | 23.60          | 1909.          | 600.0          | 48542. |
| 7/10/74  | 12.50      | 5610. | 8.08  | 3.7 | 216.0         | 14563. | 0.0              | 0.     | 22.00          | 1483.          | 925.0          | 62363. |
| 8/14/74  | 10.70      | 4303. | 6.92  | 3.6 | 184.0         | 10619. | 0.0              | 0.     | 25.30          | 1460.          | 1025.0         | 59154. |
| 9/12/74  | 7.40       | 3321. | 4.78  | 3.7 | 160.0         | 6386.  | 0.0              | 0.     | 20.90          | 834.           | 1175.0         | 46897. |
| 10/10/74 | 7.85       | 3523. | 5.07  | 3.3 | 186.0         | 7875.  | 0.0              | 0.     | 28.30          | 1198.          | 1300.0         | 55041. |
| MINIMUM  | 7.40       | 3321. | 4.78  | 3.3 | 84.0          | 6386.  | 0.0              | 0.     | 14.52          | 834.           | 425.0          | 40640. |
| MAXIMUM  | 21.80      | 9785. | 14.09 | 4.6 | 216.0         | 15756. | 0.0              | 0.     | 28.56          | 2569.          | 1300.0         | 79366. |
| AVERAGE  | 13.53      | 6072. | 8.74  | 3.7 | 160.7         | 11337. | 0.0              | 0.     | 22.85          | 1627.          | 805.4          | 53947. |

SAMPLE POINT NO. 57 MAHANDY CREEK BELOW DOUTYVILLE  
 =====

| DATE     | -----FLOW----- |         |        | PH  | ----ACIDITY---- |         | ---ALKALINITY--- |        | --TOTAL IRON-- |        | ---SULFATES--- |          |
|----------|----------------|---------|--------|-----|-----------------|---------|------------------|--------|----------------|--------|----------------|----------|
|          | CFS            | GPM     | MGD    |     | CONC.           | LB/DAY  | CONC.            | LB/DAY | CONC.          | LB/DAY | CONC.          | LB/DAY   |
| 11/ 9/73 | 151.00         | 67774.  | 97.59  | 5.5 | 30.0            | 24433.  | 13.0             | 10588. | 28.52          | 23227. | 800.0          | 651539.  |
| 12/13/73 | 296.00         | 132855. | 191.31 | 5.8 | 76.0            | 121333. | 8.0              | 12772. | 15.57          | 24857. | 400.0          | 638595.  |
| 1/10/74  | 282.00         | 126571. | 182.26 | 6.4 | 32.0            | 48671.  | 10.0             | 15210. | 21.85          | 33233. | 550.0          | 836537.  |
| 2/ 6/74  | 311.00         | 139587. | 201.01 | 6.6 | 40.0            | 67056.  | 20.0             | 33548. | 24.74          | 41499. | 475.0          | 796760.  |
| 3/ 6/74  | 283.00         | 127020. | 182.91 | 6.6 | 30.0            | 45791.  | 24.0             | 36633. | 17.93          | 27368. | 475.0          | 725026.  |
| 4/ 5/74  | 403.00         | 180880. | 260.47 | 6.4 | 38.0            | 82597.  | 2.0              | 4347.  | 10.48          | 22779. | 325.0          | 706418.  |
| 5/10/74  | 206.00         | 92460.  | 133.14 | 6.9 | 36.0            | 39998.  | 48.0             | 53331. | 14.80          | 16444. | 850.0          | 944408.  |
| 6/13/74  | 189.00         | 84829.  | 122.15 | 6.7 | 44.0            | 44853.  | 48.0             | 48930. | 24.60          | 25077. | 600.0          | 611627.  |
| 7/10/74  | 187.00         | 83932.  | 120.86 | 6.6 | 64.0            | 64550.  | 38.0             | 38326. | 17.60          | 17751. | 1050.0         | 1059020. |
| 8/14/74  | 137.00         | 61490.  | 88.55  | 6.9 | 32.0            | 23645.  | 58.0             | 42857. | 10.40          | 7685.  | 875.0          | 646550.  |
| 9/12/74  | 152.00         | 68223.  | 98.24  | 6.9 | 24.0            | 15676.  | 22.0             | 18036. | 10.90          | 8936.  | 925.0          | 758331.  |
| 10/10/74 | 142.00         | 63734.  | 91.78  | 6.3 | 28.0            | 21445.  | 34.0             | 26040. | 14.40          | 11029. | 1075.0         | 823323.  |
| MINIMUM  | 137.00         | 61490.  | 88.55  | 5.5 | 24.0            | 19676.  | 2.0              | 4347.  | 10.40          | 7685.  | 325.0          | 611627.  |
| MAXIMUM  | 403.00         | 180880. | 260.47 | 6.9 | 76.0            | 121333. | 58.0             | 53331. | 28.52          | 41499. | 1075.0         | 1059020. |
| AVERAGE  | 228.25         | 102446. | 147.52 | 6.5 | 39.5            | 50341.  | 27.1             | 28385. | 17.65          | 21657. | 700.0          | 766511.  |

SAMPLE POINT NO. 58 MAHANDY CREEK IN EAST CAMERON AT RT. 125  
 =====

| DATE     | -----FLOW----- |         |        | PH  | ----ACIDITY---- |        | ---ALKALINITY--- |        | --TOTAL IRON-- |        | ---SULFATES--- |          |
|----------|----------------|---------|--------|-----|-----------------|--------|------------------|--------|----------------|--------|----------------|----------|
|          | CFS            | GPM     | MGD    |     | CONC.           | LB/DAY | CONC.            | LB/DAY | CONC.          | LB/DAY | CONC.          | LB/DAY   |
| 11/ 9/73 | 143.00         | 54183.  | 92.42  | 6.0 | 40.0            | 30851. | 16.0             | 12340. | 22.23          | 17145. | 675.0          | 520611.  |
| 12/13/73 | 309.00         | 138689. | 199.71 | 5.7 | 50.0            | 83330. | 2.0              | 3333.  | 12.86          | 21433. | 275.0          | 458316.  |
| 1/11/74  | 291.00         | 130610. | 188.08 | 6.4 | 20.0            | 31390. | 26.0             | 40807. | 13.22          | 20749. | 425.0          | 667045.  |
| 2/ 6/74  | 311.00         | 139587. | 201.01 | 6.7 | 22.0            | 36903. | 30.0             | 50322. | 17.86          | 29958. | 575.0          | 964499.  |
| 3/ 6/74  | 282.00         | 126571. | 182.26 | 6.8 | 22.0            | 33461. | 32.0             | 48671. | 17.01          | 25872. | 400.0          | 608391.  |
| 4/ 5/74  | 408.00         | 183124. | 263.70 | 6.7 | 24.0            | 52813. | 14.0             | 30808. | 10.95          | 24096. | 225.0          | 495126.  |
| 5/10/74  | 210.00         | 94255.  | 135.73 | 6.9 | 8.0             | 9061.  | 50.0             | 56632. | 14.00          | 15857. | 700.0          | 792850.  |
| 6/13/74  | 193.00         | 86625.  | 124.74 | 6.9 | 40.0            | 41638. | 54.0             | 56211. | 17.10          | 17800. | 575.0          | 598548.  |
| 7/10/74  | 192.00         | 86176.  | 124.09 | 7.1 | 46.0            | 47636. | 36.0             | 37280. | 15.80          | 16362. | 975.0          | 1009670. |
| 8/15/74  | 140.00         | 62837.  | 90.48  | 7.4 | 32.0            | 24163. | 48.0             | 36245. | 10.80          | 8155.  | 900.0          | 679586.  |
| 9/13/74  | 147.00         | 65978.  | 95.01  | 7.0 | 16.0            | 12686. | 20.0             | 15857. | 10.20          | 8087.  | 700.0          | 554995.  |
| 10/10/74 | 144.00         | 64632.  | 93.07  | 6.5 | 16.0            | 12427. | 38.0             | 29513. | 13.50          | 10485. | 900.0          | 699002.  |
| MINIMUM  | 140.00         | 62837.  | 90.48  | 5.7 | 8.0             | 9061.  | 2.0              | 3333.  | 10.20          | 8087.  | 225.0          | 458316.  |
| MAXIMUM  | 408.00         | 183124. | 263.70 | 7.4 | 50.0            | 83330. | 54.0             | 56632. | 22.23          | 29958. | 975.0          | 1009670. |
| AVERAGE  | 230.83         | 103605. | 149.19 | 6.7 | 28.0            | 34697. | 30.5             | 34835. | 14.63          | 18000. | 610.4          | 670719.  |

SAMPLE POINT NO. 59 MAHANDY CREEK IN WEST CAMERON  
 =====

| DATE     | -----FLOW----- |         |        | PH  | ----ACIDITY---- |        | ---ALKALINITY--- |        | --TOTAL IRON-- |        | ---SULFATES--- |         |
|----------|----------------|---------|--------|-----|-----------------|--------|------------------|--------|----------------|--------|----------------|---------|
|          | CFS            | GPM     | MGD    |     | CONC.           | LB/DAY | CONC.            | LB/DAY | CONC.          | LB/DAY | CONC.          | LB/DAY  |
| 11/ 9/73 | 155.00         | 69569.  | 100.18 | 5.9 | 40.0            | 33440. | 10.0             | 8360.  | 16.98          | 14195. | 600.0          | 501598. |
| 12/13/73 | 316.00         | 141831. | 204.24 | 5.7 | 34.0            | 57948. | 2.0              | 3409.  | 12.18          | 20759. | 325.0          | 553916. |
| 1/11/74  | 298.00         | 133752. | 192.60 | 6.5 | 20.0            | 32145. | 24.0             | 38575. | 11.20          | 18001. | 425.0          | 683091. |
| 2/ 6/74  | 307.00         | 137792. | 198.42 | 6.8 | 38.0            | 62921. | 28.0             | 46363. | 12.86          | 21294. | 425.0          | 703721. |
| 3/ 6/74  | 304.00         | 136445. | 196.48 | 6.9 | 22.0            | 36072. | 38.0             | 62306. | 15.15          | 24840. | 375.0          | 614863. |
| 4/ 5/74  | 415.00         | 186266. | 268.22 | 6.7 | 20.0            | 44766. | 14.0             | 31336. | 9.05           | 20257. | 225.0          | 503621. |
| 5/ 9/74  | 220.00         | 98743.  | 142.19 | 7.1 | 10.0            | 11866. | 46.0             | 54583. | 9.60           | 11391. | 800.0          | 949262. |
| 6/12/74  | 208.00         | 93357.  | 134.43 | 7.0 | 20.0            | 22437. | 50.0             | 56093. | 15.00          | 16828. | 475.0          | 532881. |
| 7/10/74  | 195.00         | 87522.  | 126.03 | 7.1 | 46.0            | 48380. | 26.0             | 27345. | 11.70          | 12305. | 675.0          | 709924. |
| 8/15/74  | 147.00         | 65978.  | 95.01  | 7.4 | 24.0            | 15028. | 52.0             | 41228. | 10.70          | 8483.  | 875.0          | 693743. |
| 9/13/74  | 150.00         | 67325.  | 96.95  | 7.2 | 20.0            | 16181. | 20.0             | 16181. | 16.30          | 13187. | 775.0          | 626998. |
| 10/10/74 | 142.00         | 63734.  | 91.78  | 6.5 | 12.0            | 5191.  | 28.0             | 21445. | 10.40          | 7965.  | 1125.0         | 861617. |
| MINIMUM  | 142.00         | 63734.  | 91.78  | 5.7 | 10.0            | 5151.  | 2.0              | 3409.  | 9.05           | 7965.  | 225.0          | 501598. |
| MAXIMUM  | 415.00         | 186266. | 268.22 | 7.4 | 46.0            | 62921. | 52.0             | 62306. | 16.98          | 24840. | 1125.0         | 949262. |
| AVERAGE  | 238.08         | 106859. | 153.88 | 6.7 | 25.5            | 32865. | 28.2             | 33935. | 12.59          | 15792. | 591.7          | 661270. |

SAMPLE PCINT NO. 60 MAHANGY CRFEK ABOVE ZERBE RUN  
 =====

| DATE     | -----FLOW----- |         |        | PH  | ----ACIDITY---- |        | ---ALKALINITY--- |        | --TOTAL<br>CONC. | IRON--<br>LB/DAY | ---SULFATES--- |          |
|----------|----------------|---------|--------|-----|-----------------|--------|------------------|--------|------------------|------------------|----------------|----------|
|          | CFS            | GPM     | MGD    |     | CONC.           | LB/DAY | CONC.            | LB/DAY |                  |                  | CONC.          | LB/DAY   |
| 11/ 9/73 | 170.00         | 76302.  | 109.87 | 6.3 | 30.0            | 27507. | 14.0             | 12837. | 17.46            | 16009.           | 625.0          | 573063.  |
| 12/12/73 | 409.00         | 183573. | 264.34 | 5.9 | 30.0            | 66179. | 2.0              | 4412.  | 9.71             | 21420.           | 1300.0         | 2867741. |
| 1/10/74  | 326.00         | 146320. | 210.70 | 6.2 | 20.0            | 35166. | 12.0             | 21100. | 0.00             | 0.               | 235.0          | 413199.  |
| 2/ 7/74  | 310.00         | 139138. | 200.36 | 6.7 | 22.0            | 36784. | 22.0             | 36784. | 10.00            | 16720.           | 425.0          | 710598.  |
| 3/ 7/74  | 299.00         | 134201. | 193.25 | 6.7 | 16.0            | 25803. | 30.0             | 48380. | 13.96            | 22513.           | 325.0          | 524117.  |
| 4/ 4/74  | 423.00         | 189856. | 273.39 | 6.8 | 16.0            | 36503. | 20.0             | 45629. | 13.10            | 29887.           | 275.0          | 627403.  |
| 5/ 9/74  | 213.00         | 95601.  | 137.67 | 6.9 | 10.0            | 11488. | 32.0             | 36762. | 9.60             | 11029.           | 750.0          | 861617.  |
| 6/12/74  | 204.00         | 91562.  | 131.85 | 7.0 | 26.0            | 28607. | 56.0             | 61616. | 12.90            | 14194.           | 525.0          | 577648.  |
| 7/10/74  | 199.00         | 89318.  | 128.62 | 6.9 | 26.0            | 27906. | 32.0             | 34346. | 10.60            | 11377.           | 750.0          | 804985.  |
| 8/15/74  | 144.00         | 64632.  | 93.07  | 7.5 | 20.0            | 15533. | 44.0             | 34173. | 9.30             | 7223.            | 875.0          | 679586.  |
| 9/12/74  | 153.00         | 68671.  | 98.89  | 7.5 | 20.0            | 16504. | 18.0             | 14854. | 6.20             | 5116.            | 850.0          | 701429.  |
| 10/10/74 | 145.00         | 65081.  | 93.72  | 6.4 | 8.0             | 6257.  | 30.0             | 23462. | 8.50             | 6648.            | 875.0          | 684305.  |
| MINIMUM  | 144.00         | 64632.  | 93.07  | 5.9 | 8.0             | 6257.  | 2.0              | 4412.  | 0.00             | 0.               | 235.0          | 413199.  |
| MAXIMUM  | 423.00         | 189856. | 273.39 | 7.5 | 30.0            | 66179. | 56.0             | 61616. | 17.46            | 29887.           | 1300.0         | 2867741. |
| AVERAGE  | 249.58         | 112021. | 161.31 | 6.7 | 20.3            | 27853. | 26.0             | 31196. | 10.11            | 13511.           | 650.8          | 835474.  |

SAMPLE PCINT NO. 61 ZERBE RUN IN TREVORTON  
 =====

| DATE     | -----FLOW----- |       |       | PH  | ----ACIDITY---- |        | ---ALKALINITY--- |        | --TOTAL<br>CONC. | IRON--<br>LB/DAY | ---SULFATES--- |        |
|----------|----------------|-------|-------|-----|-----------------|--------|------------------|--------|------------------|------------------|----------------|--------|
|          | CFS            | GPM   | MGD   |     | CONC.           | LB/DAY | CONC.            | LB/DAY |                  |                  | CONC.          | LB/DAY |
| 11/ 9/73 | 2.55           | 1145. | 1.65  | 6.2 | 6.0             | 83.    | 8.0              | 110.   | 0.29             | 4.               | 90.0           | 1238.  |
| 12/13/73 | 7.80           | 3501. | 5.04  | 5.7 | 10.0            | 421.   | 4.0              | 168.   | 0.44             | 19.              | 30.0           | 1262.  |
| 1/10/74  | 6.50           | 2917. | 4.20  | 6.6 | 4.0             | 140.   | 10.0             | 351.   | 0.15             | 5.               | 12.0           | 421.   |
| 2/ 7/74  | 6.14           | 2756. | 3.97  | 7.2 | 4.0             | 132.   | 10.0             | 331.   | 0.15             | 5.               | 3.0            | 265.   |
| 3/ 7/74  | 3.23           | 1450. | 2.09  | 7.2 | 4.0             | 70.    | 16.0             | 279.   | 0.29             | 5.               | 300.0          | 5226.  |
| 4/ 4/74  | 18.70          | 8393. | 12.09 | 6.6 | 6.0             | 605.   | 6.0              | 605.   | 0.24             | 24.              | 45.0           | 4539.  |
| 5/ 9/74  | 6.43           | 2886. | 4.16  | 7.2 | 0.0             | 0.     | 14.0             | 486.   | 1.00             | 35.              | 30.0           | 1040.  |
| 6/12/74  | 1.62           | 727.  | 1.05  | 7.2 | 6.0             | 52.    | 18.0             | 157.   | 0.40             | 3.               | 6.0            | 52.    |
| 7/10/74  | 2.58           | 1158. | 1.67  | 7.4 | 24.0            | 334.   | 10.0             | 139.   | 0.50             | 7.               | 200.0          | 2783.  |
| 8/14/74  | 1.23           | 552.  | 0.79  | 7.7 | 6.0             | 40.    | 16.0             | 106.   | 0.60             | 4.               | 325.0          | 2156.  |
| 9/13/74  | 1.12           | 503.  | 0.72  | 7.5 | 14.0            | 85.    | 10.0             | 60.    | 0.60             | 4.               | 150.0          | 906.   |
| 10/10/74 | 1.20           | 539.  | 0.78  | 6.6 | 8.0             | 52.    | 10.0             | 65.    | 0.50             | 3.               | 250.0          | 1618.  |
| MINIMUM  | 1.12           | 503.  | 0.72  | 5.7 | 0.0             | 0.     | 4.0              | 60.    | 0.15             | 3.               | 6.0            | 52.    |
| MAXIMUM  | 18.70          | 8393. | 12.09 | 7.7 | 24.0            | 605.   | 18.0             | 605.   | 1.00             | 35.              | 325.0          | 5226.  |
| AVERAGE  | 4.92           | 2211. | 3.18  | 6.9 | 7.7             | 168.   | 11.0             | 238.   | 0.43             | 10.              | 120.5          | 1792.  |

SAMPLE PCINT NO. 62 NORTH FRANKLIN OVERFLOW DISCHARGE  
 =====

| DATE     | -----FLOW----- |       |       | PH  | ----ACIDITY---- |        | ---ALKALINITY--- |        | --TOTAL<br>CONC. | IRON--<br>LB/DAY | ---SULFATES--- |        |
|----------|----------------|-------|-------|-----|-----------------|--------|------------------|--------|------------------|------------------|----------------|--------|
|          | CFS            | GPM   | MGD   |     | CONC.           | LB/DAY | CONC.            | LB/DAY |                  |                  | CONC.          | LB/DAY |
| 11/ 9/73 | 14.00          | 6284. | 9.05  | 3.6 | 110.0           | 8306.  | 0.0              | 0.     | 43.52            | 3286.            | 590.0          | 44551. |
| 12/13/73 | 11.60          | 5206. | 7.50  | 3.4 | 140.0           | 8759.  | 0.0              | 0.     | 32.93            | 2060.            | 450.0          | 28154. |
| 1/10/74  | 14.00          | 6284. | 9.05  | 3.9 | 162.0           | 12233. | 0.0              | 0.     | 33.01            | 2493.            | 550.0          | 41530. |
| 2/ 7/74  | 11.20          | 5027. | 7.24  | 3.9 | 130.0           | 7853.  | 0.0              | 0.     | 38.06            | 2299.            | 350.0          | 21143. |
| 3/ 7/74  | 8.81           | 3954. | 5.69  | 3.8 | 144.0           | 6842.  | 0.0              | 0.     | 40.55            | 1927.            | 350.0          | 16631. |
| 4/ 4/74  | 17.70          | 7944. | 11.44 | 3.6 | 124.0           | 11838. | 0.0              | 0.     | 25.95            | 2477.            | 400.0          | 38186. |
| 5/10/74  | 17.90          | 8034. | 11.57 | 5.0 | 90.0            | 8689.  | 0.0              | 0.     | 37.70            | 3254.            | 625.0          | 60340. |
| 6/12/74  | 11.00          | 4937. | 7.11  | 4.0 | 130.0           | 7713.  | 0.0              | 0.     | 37.50            | 2225.            | 450.0          | 26698. |
| 7/10/74  | 14.10          | 6329. | 9.11  | 3.8 | 212.0           | 16122. | 0.0              | 0.     | 36.70            | 2791.            | 625.0          | 47531. |
| 8/15/74  | 9.92           | 4048. | 5.83  | 3.8 | 160.0           | 7784.  | 0.0              | 0.     | 51.20            | 2491.            | 575.0          | 27974. |
| 9/13/74  | 3.06           | 3618. | 5.21  | 3.6 | 500.0           | 21736. | 0.0              | 0.     | 48.40            | 2104.            | 700.0          | 30430. |
| 10/10/74 | 8.32           | 3734. | 5.38  | 3.8 | 100.0           | 4487.  | 0.0              | 0.     | 36.40            | 1633.            | 750.0          | 33656. |
| MINIMUM  | 8.06           | 3618. | 5.21  | 3.4 | 90.0            | 4487.  | 0.0              | 0.     | 25.95            | 1633.            | 350.0          | 16631. |
| MAXIMUM  | 17.90          | 8034. | 11.57 | 5.0 | 500.0           | 21736. | 0.0              | 0.     | 51.20            | 3286.            | 750.0          | 60340. |
| AVERAGE  | 12.14          | 5450. | 7.85  | 3.8 | 166.8           | 10157. | 0.0              | 0.     | 38.16            | 2420.            | 534.6          | 34735. |

SAMPLE PCINT NO. 63 SOUTH TREVORTON DISCHARGE

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| DATE     | ---FLOW--- |      |      | PH  | ---ACIDITY--- |        | ---ALKALINITY--- |        | TOTAL<br>CONC. | IRON--<br>LB/DAY | ---SULFATES--- |        |
|----------|------------|------|------|-----|---------------|--------|------------------|--------|----------------|------------------|----------------|--------|
|          | CFS        | GPM  | MGD  |     | CONC.         | LB/DAY | CONC.            | LB/DAY |                |                  | CONC.          | LB/DAY |
| 11/ 9/73 | 0.08       | 36.  | 0.05 | 3.3 | 70.0          | 30.    | 0.0              | 0.     | 7.61           | 3.               | 150.0          | 65.    |
| 12/13/73 | 0.17       | 76.  | 0.11 | 3.1 | 140.0         | 128.   | 0.0              | 0.     | 8.89           | 8.               | 275.0          | 252.   |
| 1/10/74  | 0.31       | 139. | 0.20 | 3.7 | 70.0          | 117.   | 0.0              | 0.     | 3.40           | 6.               | 175.0          | 293.   |
| 2/ 7/74  | 0.39       | 175. | 0.25 | 3.7 | 74.0          | 156.   | 0.0              | 0.     | 3.59           | 8.               | 175.0          | 368.   |
| 3/ 7/74  | 0.17       | 76.  | 0.11 | 3.6 | 84.0          | 77.    | 0.0              | 0.     | 4.15           | 4.               | 150.0          | 138.   |
| 4/ 4/74  | 0.50       | 224. | 0.32 | 3.5 | 88.0          | 237.   | 0.0              | 0.     | 3.81           | 10.              | 150.0          | 405.   |
| 5/10/74  | 0.32       | 144. | 0.21 | 5.0 | 52.0          | 90.    | 0.0              | 0.     | 2.70           | 5.               | 175.0          | 302.   |
| 6/12/74  | 0.15       | 67.  | 0.10 | 3.7 | 80.0          | 65.    | 0.0              | 0.     | 3.10           | 3.               | 100.0          | 81.    |
| 7/10/74  | 0.65       | 292. | 0.42 | 3.8 | 102.0         | 358.   | 0.0              | 0.     | 3.00           | 11.              | 200.0          | 701.   |
| 8/15/74  | 0.17       | 76.  | 0.11 | 3.6 | 74.0          | 68.    | 0.0              | 0.     | 2.60           | 2.               | 225.0          | 206.   |
| 9/13/74  | 0.17       | 76.  | 0.11 | 3.3 | 62.0          | 57.    | 0.0              | 0.     | 2.60           | 2.               | 175.0          | 160.   |
| 10/10/74 | 0.15       | 67.  | 0.10 | 3.3 | 68.0          | 55.    | 0.0              | 0.     | 3.30           | 3.               | 275.0          | 222.   |
| MINIMUM  | 0.08       | 36.  | 0.05 | 3.1 | 52.0          | 30.    | 0.0              | 0.     | 2.60           | 2.               | 100.0          | 65.    |
| MAXIMUM  | 0.65       | 292. | 0.42 | 5.0 | 140.0         | 358.   | 0.0              | 0.     | 8.89           | 11.              | 275.0          | 701.   |
| AVERAGE  | 0.27       | 121. | 0.17 | 3.6 | 80.3          | 120.   | 0.0              | 0.     | 4.06           | 5.               | 185.4          | 266.   |

SAMPLE POINT NO. 64 ZERBE RUN BELOW TREVORTON

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| DATE     | ---FLOW--- |        |       | PH  | ---ACIDITY--- |        | ---ALKALINITY--- |        | TOTAL<br>CONC. | IRON--<br>LB/DAY | ---SULFATES--- |        |
|----------|------------|--------|-------|-----|---------------|--------|------------------|--------|----------------|------------------|----------------|--------|
|          | CFS        | GPM    | MGD   |     | CONC.         | LB/DAY | CONC.            | LB/DAY |                |                  | CONC.          | LB/DAY |
| 11/ 9/73 | 10.30      | 4623.  | 6.66  | 3.6 | 100.0         | 5555.  | 0.0              | 0.     | 17.54          | 974.             | 450.0          | 24999. |
| 12/13/73 | 24.00      | 10772. | 15.51 | 3.5 | 88.0          | 11391. | 0.0              | 0.     | 16.00          | 2071.            | 275.0          | 35597. |
| 1/10/74  | 24.40      | 10952. | 15.77 | 3.9 | 82.0          | 10791. | 0.0              | 0.     | 21.21          | 2791.            | 200.0          | 26320. |
| 2/ 7/74  | 15.50      | 6957.  | 10.02 | 3.9 | 104.0         | 8694.  | 0.0              | 0.     | 17.37          | 1452.            | 200.0          | 16720. |
| 3/ 7/74  | 10.80      | 4847.  | 6.98  | 3.8 | 134.0         | 7806.  | 0.0              | 0.     | 16.10          | 938.             | 225.0          | 13106. |
| 4/ 4/74  | 43.90      | 19704. | 28.37 | 4.2 | 54.0          | 12786. | 0.0              | 0.     | 8.81           | 2086.            | 175.0          | 41436. |
| 5/ 9/74  | 21.35      | 9583.  | 13.80 | 5.4 | 50.0          | 5758.  | 0.0              | 0.     | 13.30          | 1532.            | 300.0          | 34546. |
| 6/12/74  | 10.40      | 4668.  | 6.72  | 4.0 | 106.0         | 5946.  | 0.0              | 0.     | 32.30          | 1812.            | 350.0          | 19632. |
| 7/10/74  | 17.50      | 7855.  | 11.31 | 3.7 | 148.0         | 13969. | 0.0              | 0.     | 23.30          | 2199.            | 500.0          | 47193. |
| 8/14/74  | 10.50      | 4713.  | 6.79  | 3.9 | 160.0         | 9061.  | 0.0              | 0.     | 27.50          | 1557.            | 450.0          | 25484. |
| 9/13/74  | 8.29       | 3721.  | 5.36  | 3.8 | 90.0          | 4024.  | 0.0              | 0.     | 14.60          | 653.             | 450.0          | 20121. |
| 10/10/74 | 9.42       | 4228.  | 6.09  | 3.6 | 106.0         | 5386.  | 0.0              | 0.     | 22.10          | 1123.            | 475.0          | 24133. |
| MINIMUM  | 8.29       | 3721.  | 5.36  | 3.5 | 50.0          | 4024.  | 0.0              | 0.     | 8.81           | 653.             | 175.0          | 13106. |
| MAXIMUM  | 43.90      | 19704. | 28.37 | 5.4 | 160.0         | 13969. | 0.0              | 0.     | 32.30          | 2791.            | 500.0          | 47193. |
| AVERAGE  | 17.20      | 7718.  | 11.11 | 3.9 | 101.8         | 8431.  | 0.0              | 0.     | 19.18          | 1599.            | 337.5          | 27441. |

SAMPLE POINT NO. 65 SUNSHINE MINE DISCHARGE

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| DATE     | ---FLOW--- |      |      | PH  | ---ACIDITY--- |        | ---ALKALINITY--- |        | TOTAL<br>CONC. | IRON--<br>LB/DAY | ---SULFATES--- |        |
|----------|------------|------|------|-----|---------------|--------|------------------|--------|----------------|------------------|----------------|--------|
|          | CFS        | GPM  | MGD  |     | CONC.         | LB/DAY | CONC.            | LB/DAY |                |                  | CONC.          | LB/DAY |
| 11/ 9/73 | 0.16       | 72.  | 0.10 | 3.2 | 112.0         | 97.    | 0.0              | 0.     | 2.69           | 2.               | 190.0          | 164.   |
| 12/13/73 | 0.43       | 193. | 0.28 | 3.2 | 50.0          | 116.   | 0.0              | 0.     | 5.15           | 12.              | 105.0          | 244.   |
| 1/10/74  | 0.63       | 283. | 0.41 | 3.9 | 38.0          | 129.   | 0.0              | 0.     | 1.36           | 5.               | 300.0          | 1019.  |
| 2/ 7/74  | 0.73       | 328. | 0.47 | 3.8 | 38.0          | 150.   | 0.0              | 0.     | 1.05           | 4.               | 100.0          | 394.   |
| 3/ 7/74  | 0.60       | 269. | 0.39 | 3.5 | 48.0          | 155.   | 0.0              | 0.     | 1.52           | 5.               | 175.0          | 566.   |
| 4/ 4/74  | 1.50       | 673. | 0.97 | 3.8 | 50.0          | 405.   | 0.0              | 0.     | 1.67           | 14.              | 150.0          | 1214.  |
| 5/ 9/74  | 0.80       | 359. | 0.52 | 4.6 | 40.0          | 173.   | 0.0              | 0.     | 1.00           | 4.               | 175.0          | 755.   |
| 6/12/74  | 0.65       | 292. | 0.42 | 3.7 | 34.0          | 119.   | 0.0              | 0.     | 1.30           | 5.               | 175.0          | 614.   |
| 7/10/74  | 0.67       | 301. | 0.43 | 3.7 | 80.0          | 289.   | 0.0              | 0.     | 1.20           | 4.               | 175.0          | 632.   |
| 8/15/74  | 0.15       | 67.  | 0.10 | 3.7 | 46.0          | 37.    | 0.0              | 0.     | 1.40           | 1.               | 225.0          | 182.   |
| 9/12/74  | 0.17       | 76.  | 0.11 | 3.6 | 66.0          | 61.    | 0.0              | 0.     | 0.90           | 1.               | 225.0          | 206.   |
| 10/10/74 | 0.14       | 63.  | 0.09 | 3.4 | 68.0          | 51.    | 0.0              | 0.     | 1.70           | 1.               | 325.0          | 245.   |
| MINIMUM  | 0.14       | 63.  | 0.09 | 3.2 | 34.0          | 37.    | 0.0              | 0.     | 0.90           | 1.               | 100.0          | 164.   |
| MAXIMUM  | 1.50       | 673. | 0.97 | 4.6 | 112.0         | 405.   | 0.0              | 0.     | 5.15           | 14.              | 325.0          | 1214.  |
| AVERAGE  | 0.55       | 248. | 0.36 | 3.7 | 55.8          | 148.   | 0.0              | 0.     | 1.74           | 5.               | 193.3          | 520.   |

SAMPLE POINT NO. 66 ZERBE RUN AT CONFLUENCE

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| DATE     | ---FLOW--- |        |       | PH  | ---ACIDITY--- |        | ---ALKALINITY--- |        | TOTAL<br>CONC. | IRON--<br>LB/DAY | ---SULFATES--- |        |
|----------|------------|--------|-------|-----|---------------|--------|------------------|--------|----------------|------------------|----------------|--------|
|          | CFS        | GPM    | MGD   |     | CONC.         | LB/DAY | CONC.            | LB/DAY |                |                  | CONC.          | LB/DAY |
| 11/ 9/73 | 18.70      | 8393.  | 12.09 | 3.2 | 215.0         | 21685. | 0.0              | 0.     | 26.27          | 2650.            | 400.0          | 40344. |
| 12/12/73 | 38.00      | 17056. | 24.56 | 3.3 | 132.0         | 27054. | 0.0              | 0.     | 11.84          | 2427.            | 175.0          | 35867. |
| 1/10/74  | 30.20      | 13555. | 19.52 | 3.9 | 100.0         | 16288. | 0.0              | 0.     | 15.15          | 2468.            | 225.0          | 36649. |
| 2/ 7/74  | 41.90      | 18806. | 27.08 | 3.4 | 154.0         | 34802. | 0.0              | 0.     | 12.58          | 2843.            | 355.0          | 80226. |
| 3/ 7/74  | 19.00      | 8528.  | 12.28 | 3.7 | 118.0         | 12092. | 0.0              | 0.     | 13.44          | 1377.            | 150.0          | 15372. |
| 4/ 4/74  | 66.60      | 29892. | 43.04 | 4.0 | 54.0          | 19397. | 0.0              | 0.     | 6.67           | 2396.            | 175.0          | 62862. |
| 5/ 9/74  | 39.70      | 17819. | 25.66 | 4.6 | 134.0         | 28693. | 0.0              | 0.     | 15.30          | 3276.            | 325.0          | 69590. |
| 6/12/74  | 10.51      | 4717.  | 6.79  | 3.4 | 160.0         | 9070.  | 0.0              | 0.     | 9.30           | 527.             | 350.0          | 19840. |
| 7/10/74  | 27.20      | 12208. | 17.58 | 3.5 | 170.0         | 24940. | 0.0              | 0.     | 11.00          | 1614.            | 425.0          | 62349. |
| 8/15/74  | 11.80      | 5296.  | 7.63  | 3.5 | 162.0         | 10310. | 0.0              | 0.     | 21.50          | 1368.            | 500.0          | 31822. |
| 9/12/74  | 9.78       | 4390.  | 6.32  | 3.5 | 148.0         | 7807.  | 0.0              | 0.     | 6.20           | 327.             | 575.0          | 30331. |
| 10/10/74 | 12.00      | 5386.  | 7.76  | 3.3 | 300.0         | 15417. | 0.0              | 0.     | 11.40          | 738.             | 550.0          | 35597. |
| MINIMUM  | 9.78       | 4390.  | 6.32  | 3.2 | 54.0          | 7807.  | 0.0              | 0.     | 6.20           | 327.             | 150.0          | 15372. |
| MAXIMUM  | 66.60      | 29892. | 43.04 | 4.6 | 300.0         | 34802. | 0.0              | 0.     | 26.27          | 3276.            | 575.0          | 80226. |
| AVERAGE  | 27.12      | 12170. | 17.53 | 3.6 | 153.9         | 15296. | 0.0              | 0.     | 13.39          | 1834.            | 350.4          | 43404. |

SAMPLE POINT NO. 67 MAHANDY CREEK BELOW ZERBE RUN

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| DATE     | ---FLOW--- |         |        | PH  | ---ACIDITY--- |         | ---ALKALINITY--- |        | TOTAL<br>CONC. | IRON--<br>LB/DAY | ---SULFATES--- |          |
|----------|------------|---------|--------|-----|---------------|---------|------------------|--------|----------------|------------------|----------------|----------|
|          | CFS        | GPM     | MGD    |     | CONC.         | LB/DAY  | CONC.            | LB/DAY |                |                  | CONC.          | LB/DAY   |
| 11/ 9/73 | 205.00     | 92011.  | 132.50 | 5.3 | 90.0          | 99511.  | 7.0              | 7740.  | 18.16          | 20079.           | 550.0          | 713689.  |
| 12/12/73 | 413.00     | 185368. | 265.93 | 5.3 | 48.0          | 106921. | 2.0              | 4455.  | 10.00          | 22275.           | 255.0          | 568020.  |
| 1/10/74  | 338.00     | 151706. | 218.46 | 5.9 | 6.0           | 10938.  | 8.0              | 14584. | 9.71           | 17701.           | 550.0          | 1002658. |
| 2/ 7/74  | 340.00     | 152603. | 219.75 | 6.4 | 18.0          | 33008.  | 10.0             | 18338. | 9.71           | 17806.           | 505.0          | 926069.  |
| 3/ 7/74  | 311.00     | 139587. | 201.01 | 6.4 | 32.0          | 53676.  | 24.0             | 40257. | 12.52          | 21001.           | 350.0          | 587086.  |
| 4/ 4/74  | 491.00     | 220377. | 317.34 | 6.7 | 10.0          | 26482.  | 12.0             | 31779. | 10.95          | 28998.           | 280.0          | 741503.  |
| 5/ 9/74  | 241.00     | 108169. | 155.76 | 6.8 | 10.0          | 12998.  | 26.0             | 33796. | 10.30          | 13388.           | 675.0          | 877394.  |
| 6/12/74  | 228.00     | 102334. | 147.36 | 6.9 | 12.0          | 14757.  | 52.0             | 63946. | 13.10          | 16109.           | 475.0          | 584120.  |
| 7/10/74  | 221.00     | 99192.  | 142.84 | 6.9 | 54.0          | 64366.  | 8.0              | 9536.  | 10.90          | 12992.           | 600.0          | 715183.  |
| 8/15/74  | 153.00     | 68671.  | 98.89  | 7.2 | 26.0          | 21455.  | 32.0             | 26407. | 10.20          | 8417.            | 725.0          | 598278.  |
| 9/12/74  | 162.00     | 72711.  | 104.70 | 6.9 | 20.0          | 17475.  | 6.0              | 5243.  | 6.30           | 5505.            | 825.0          | 720846.  |
| 10/10/74 | 162.00     | 72711.  | 104.70 | 6.4 | 20.0          | 17475.  | 12.0             | 10485. | 11.40          | 9961.            | 1025.0         | 895597.  |
| MINIMUM  | 153.00     | 68671.  | 98.89  | 5.3 | 6.0           | 10938.  | 2.0              | 4455.  | 6.30           | 5505.            | 255.0          | 568020.  |
| MAXIMUM  | 491.00     | 220377. | 317.34 | 7.2 | 90.0          | 106921. | 52.0             | 63946. | 18.16          | 28998.           | 1025.0         | 1002658. |
| AVERAGE  | 272.08     | 122120. | 175.85 | 6.4 | 28.8          | 34922.  | 16.6             | 22214. | 11.10          | 16186.           | 576.3          | 744620.  |

SAMPLE POINT NO. 68 SCHWAABEN CREEK

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| DATE     | ---FLOW--- |        |       | PH  | ---ACIDITY--- |        | ---ALKALINITY--- |        | TOTAL<br>CONC. | IRON--<br>LB/DAY | ---SULFATES--- |         |
|----------|------------|--------|-------|-----|---------------|--------|------------------|--------|----------------|------------------|----------------|---------|
|          | CFS        | GPM    | MGD   |     | CONC.         | LB/DAY | CONC.            | LB/DAY |                |                  | CONC.          | LB/DAY  |
| 11/ 9/73 | 25.60      | 11490. | 16.55 | 6.4 | 8.0           | 1105.  | 36.0             | 4971.  | 0.22           | 30.              | 220.0          | 30376.  |
| 12/12/73 | 72.50      | 32540. | 46.86 | 6.0 | 14.0          | 5474.  | 12.0             | 4692.  | 0.29           | 113.             | 30.0           | 11731.  |
| 1/10/74  | 28.40      | 12747. | 18.36 | 7.0 | 2.0           | 306.   | 20.0             | 3064.  | 0.15           | 23.              | 40.0           | 6127.   |
| 2/ 7/74  | 30.40      | 13645. | 19.65 | 7.1 | 4.0           | 656.   | 20.0             | 3279.  | 0.15           | 25.              | 35.0           | 5739.   |
| 3/ 7/74  | 24.50      | 10996. | 15.83 | 8.1 | 0.0           | 0.     | 24.0             | 3171.  | 0.00           | 0.               | 75.0           | 9911.   |
| 4/ 4/74  | 129.00     | 57899. | 83.38 | 7.3 | 2.0           | 1392.  | 20.0             | 13915. | 0.24           | 167.             | 200.0          | 139153. |
| 5/ 9/74  | 22.00      | 9874.  | 14.22 | 7.5 | 4.0           | 475.   | 36.0             | 4272.  | 0.60           | 71.              | 175.0          | 20765.  |
| 6/12/74  | 9.01       | 4044.  | 5.82  | 7.4 | 6.0           | 292.   | 56.0             | 2721.  | 0.30           | 15.              | 225.0          | 10934.  |
| 7/10/74  | 18.30      | 8214.  | 11.83 | 8.0 | 20.0          | 1974.  | 38.0             | 3751.  | 0.20           | 20.              | 200.0          | 19740.  |
| 8/14/74  | 11.90      | 5341.  | 7.69  | 8.1 | 4.0           | 257.   | 60.0             | 3851.  | 2.00           | 128.             | 225.0          | 14441.  |
| 9/12/74  | 8.86       | 3977.  | 5.73  | 8.1 | 10.0          | 478.   | 20.0             | 956.   | 0.30           | 14.              | 175.0          | 8363.   |
| 10/10/74 | 6.63       | 2976.  | 4.29  | 6.4 | 10.0          | 358.   | 24.0             | 858.   | 0.30           | 11.              | 250.0          | 8940.   |
| MINIMUM  | 6.63       | 2976.  | 4.29  | 6.0 | 0.0           | 0.     | 12.0             | 858.   | 0.00           | 0.               | 30.0           | 5739.   |
| MAXIMUM  | 129.00     | 57899. | 83.38 | 8.1 | 20.0          | 5474.  | 60.0             | 13915. | 2.00           | 167.             | 250.0          | 139153. |
| AVERAGE  | 32.26      | 14479. | 20.85 | 7.3 | 7.0           | 1064.  | 30.5             | 4125.  | 0.40           | 51.              | 154.2          | 23852.  |



SAMPLE PCINT NO. 59 SCHWABEN CREEK BELOW MOUSE CREEK

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| DATE     | ---FLOW--- |        |       | PH  | ---ACIDITY--- |        | ---ALKALINITY--- |        | ---TOTAL<br>CONC. | IRON--<br>LB/DAY | ---SULFATES--- |         |
|----------|------------|--------|-------|-----|---------------|--------|------------------|--------|-------------------|------------------|----------------|---------|
|          | CFS        | GPM    | MGD   |     | CONC.         | LB/DAY | CONC.            | LB/DAY |                   |                  | CONC.          | LB/DAY  |
| 11/ 9/73 | 30.40      | 13645. | 19.65 | 6.5 | 6.0           | 984.   | 43.0             | 7050.  | 0.15              | 25.              | 21.0           | 3443.   |
| 12/12/73 | 86.10      | 38645. | 55.65 | 6.3 | 16.0          | 7430.  | 14.0             | 6501.  | 0.44              | 204.             | 11.0           | 5108.   |
| 1/10/74  | 40.10      | 17998. | 25.92 | 6.6 | 8.0           | 1730.  | 40.0             | 8651.  | 0.15              | 32.              | 20.0           | 4326.   |
| 2/ 7/74  | 41.50      | 18627. | 26.82 | 7.1 | 2.0           | 448.   | 38.0             | 8506.  | 0.15              | 34.              | 12.0           | 2686.   |
| 3/ 7/74  | 31.80      | 14273. | 20.55 | 7.4 | 0.0           | 0.     | 38.0             | 6518.  | 0.00              | 0.               | 200.0          | 34303.  |
| 4/ 4/74  | 150.00     | 67325. | 96.95 | 7.1 | 4.0           | 3236.  | 32.0             | 25889. | 0.48              | 388.             | 150.0          | 121355. |
| 5/ 9/74  | 25.70      | 11535. | 16.61 | 7.5 | 2.0           | 277.   | 62.0             | 8594.  | 0.50              | 69.              | 200.0          | 27723.  |
| 6/12/74  | 11.60      | 5206.  | 7.50  | 7.4 | 6.0           | 375.   | 86.0             | 5381.  | 0.30              | 19.              | 225.0          | 14077.  |
| 7/10/74  | 27.70      | 12433. | 17.90 | 8.0 | 20.0          | 2988.  | 50.0             | 7470.  | 0.30              | 45.              | 175.0          | 26145.  |
| 8/14/74  | 16.80      | 7540.  | 10.86 | 8.0 | 0.0           | 0.     | 70.0             | 6343.  | 0.10              | 9.               | 150.0          | 13592.  |
| 9/12/74  | 10.20      | 4578.  | 6.59  | 8.2 | 0.0           | 0.     | 40.0             | 2201.  | 0.20              | 11.              | 175.0          | 9627.   |
| 10/10/74 | 10.80      | 4847.  | 6.98  | 6.6 | 10.0          | 583.   | 38.0             | 2214.  | 0.00              | 0.               | 225.0          | 13106.  |
| MINIMUM  | 10.20      | 4578.  | 6.59  | 6.3 | 0.0           | 0.     | 14.0             | 2201.  | 0.00              | 0.               | 11.0           | 2686.   |
| MAXIMUM  | 150.00     | 67325. | 96.95 | 8.2 | 20.0          | 7430.  | 86.0             | 25889. | 0.50              | 388.             | 225.0          | 121355. |
| AVERAGE  | 40.22      | 18054. | 26.00 | 7.2 | 6.2           | 1504.  | 45.9             | 7943.  | 0.23              | 70.              | 130.3          | 22958.  |

SAMPLE PCINT NO. 70 MOUSE CREEK

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| DATE     | ---FLOW--- |        |       | PH  | ---ACIDITY--- |        | ---ALKALINITY--- |        | ---TOTAL<br>CONC. | IRON--<br>LB/DAY | ---SULFATES--- |        |
|----------|------------|--------|-------|-----|---------------|--------|------------------|--------|-------------------|------------------|----------------|--------|
|          | CFS        | GPM    | MGD   |     | CONC.         | LB/DAY | CONC.            | LB/DAY |                   |                  | CONC.          | LB/DAY |
| 11/ 9/73 | 7.03       | 3155.  | 4.54  | 7.3 | 5.0           | 190.   | 73.0             | 2768.  | 0.15              | 6.               | 19.0           | 720.   |
| 12/12/73 | 19.20      | 8618.  | 12.41 | 6.6 | 10.0          | 1036.  | 40.0             | 4142.  | 0.15              | 16.              | 13.0           | 1346.  |
| 1/10/74  | 10.10      | 4533.  | 6.53  | 7.2 | 0.0           | 0.     | 62.0             | 3377.  | 0.15              | 8.               | 35.0           | 1907.  |
| 2/ 7/74  | 10.50      | 4713.  | 6.79  | 7.2 | 2.0           | 113.   | 76.0             | 4304.  | 0.00              | 0.               | 11.0           | 623.   |
| 3/ 7/74  | 8.75       | 3927.  | 5.66  | 7.6 | 0.0           | 0.     | 88.0             | 4153.  | 0.29              | 14.              | 175.0          | 8259.  |
| 4/ 4/74  | 30.50      | 13689. | 19.71 | 7.1 | 4.0           | 658.   | 50.0             | 8225.  | 0.48              | 79.              | 175.0          | 28788. |
| 5/ 9/74  | 8.51       | 3820.  | 5.50  | 7.7 | 2.0           | 92.    | 108.0            | 4957.  | 0.20              | 9.               | 200.0          | 9180.  |
| 6/12/74  | 2.79       | 1252.  | 1.80  | 7.9 | 2.0           | 30.    | 140.0            | 2107.  | 0.10              | 2.               | 175.0          | 2633.  |
| 7/10/74  | 10.10      | 4533.  | 6.53  | 8.3 | 26.0          | 1416.  | 108.0            | 5883.  | 0.10              | 5.               | 175.0          | 9533.  |
| 8/14/74  | 2.52       | 1131.  | 1.63  | 8.7 | 0.0           | 0.     | 130.0            | 1767.  | 0.20              | 3.               | 200.0          | 2718.  |
| 9/12/74  | 1.10       | 494.   | 0.71  | 8.2 | 0.0           | 0.     | 78.0             | 463.   | 0.10              | 1.               | 200.0          | 1187.  |
| 10/10/74 | 1.12       | 503.   | 0.72  | 7.6 | 0.0           | 0.     | 86.0             | 520.   | 0.00              | 0.               | 300.0          | 1812.  |
| MINIMUM  | 1.10       | 494.   | 0.71  | 6.6 | 0.0           | 0.     | 40.0             | 463.   | 0.00              | 0.               | 11.0           | 623.   |
| MAXIMUM  | 30.50      | 13689. | 19.71 | 8.7 | 26.0          | 1416.  | 140.0            | 8225.  | 0.48              | 79.              | 300.0          | 28788. |
| AVERAGE  | 9.35       | 4197.  | 6.04  | 7.6 | 4.3           | 295.   | 86.6             | 3556.  | 0.16              | 12.              | 139.8          | 5726.  |

SAMPLE PCINT NO. 71 MAHANCY CREEK AT OTTO

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| DATE     | ---FLOW--- |         |        | PH  | ---ACIDITY--- |        | ---ALKALINITY--- |        | ---TOTAL<br>CONC. | IRON--<br>LB/DAY | ---SULFATES--- |          |
|----------|------------|---------|--------|-----|---------------|--------|------------------|--------|-------------------|------------------|----------------|----------|
|          | CFS        | GPM     | MGD    |     | CONC.         | LB/DAY | CONC.            | LB/DAY |                   |                  | CONC.          | LB/DAY   |
| 11/ 9/73 | 243.00     | 109066. | 157.06 | 6.3 | 50.0          | 65531. | 7.0              | 9174.  | 23.23             | 30446.           | 740.0          | 969865.  |
| 12/12/73 | 486.00     | 219133. | 314.11 | 5.6 | 28.0          | 73395. | 2.0              | 5243.  | 6.44              | 16881.           | 260.0          | 681527.  |
| 1/10/74  | 381.00     | 171005. | 246.25 | 6.1 | 8.0           | 16439. | 8.0              | 16439. | 7.37              | 15145.           | 430.0          | 883623.  |
| 2/ 7/74  | 364.00     | 163375. | 235.26 | 6.6 | 20.0          | 39265. | 12.0             | 23559. | 7.86              | 15431.           | 420.0          | 824564.  |
| 3/ 7/74  | 321.00     | 144075. | 207.47 | 6.6 | 0.0           | 0.     | 16.0             | 27701. | 10.59             | 18335.           | 325.0          | 562681.  |
| 4/ 4/74  | 668.00     | 299820. | 431.74 | 6.8 | 12.0          | 43235. | 12.0             | 43235. | 11.19             | 40316.           | 290.0          | 1044835. |
| 5/ 9/74  | 263.00     | 118043. | 169.98 | 7.2 | 8.0           | 11348. | 28.0             | 39718. | 9.20              | 13050.           | 550.0          | 780175.  |
| 6/12/74  | 237.00     | 106373. | 153.18 | 6.9 | 12.0          | 15339. | 34.0             | 43461. | 12.70             | 16234.           | 425.0          | 543264.  |
| 7/10/74  | 244.00     | 109515. | 157.70 | 6.9 | 26.0          | 34217. | 12.0             | 15792. | 0.88              | 1158.            | 525.0          | 690912.  |
| 8/14/74  | 172.00     | 77199.  | 111.17 | 7.1 | 16.0          | 14843. | 26.0             | 24120. | 6.20              | 5752.            | 650.0          | 602997.  |
| 9/12/74  | 179.00     | 80341.  | 115.69 | 7.6 | 10.0          | 9654.  | 8.0              | 7724.  | 5.90              | 5696.            | 675.0          | 651674.  |
| 10/10/74 | 130.00     | 80790.  | 116.34 | 6.3 | 20.0          | 15417. | 28.0             | 27183. | 8.80              | 8543.            | 925.0          | 898024.  |
| MINIMUM  | 172.00     | 77199.  | 111.17 | 5.6 | 0.0           | 0.     | 2.0              | 5243.  | 0.88              | 1158.            | 260.0          | 543264.  |
| MAXIMUM  | 668.00     | 299820. | 431.74 | 7.6 | 50.0          | 73395. | 34.0             | 43461. | 23.23             | 40316.           | 925.0          | 1044835. |
| AVERAGE  | 311.50     | 139811. | 201.33 | 6.7 | 17.5          | 28557. | 16.1             | 23612. | 9.20              | 15582.           | 517.9          | 761178.  |