

Sta. A-1-1

Location Mouth of Stony Fork Creek

Elevation 935

| Date    | Flow<br>M.G.D. | Water Analysis - mg/l |         |       |          |         |         | Daily Discharge - lbs/day |       |          |         |         |
|---------|----------------|-----------------------|---------|-------|----------|---------|---------|---------------------------|-------|----------|---------|---------|
|         |                | pH                    | Acidity | Alky. | Total Fe | Ferrous | Sulfate | Acidity                   | Alky. | Total Fe | Ferrous | Sulfate |
| 7-8-75  | 9.320          | 6.8                   | 0       | 32    | 0.07     | -       | 54      | 0                         | 2489  | 5.44     | -       | 4200    |
| 8-7-75  | 9.518          | 7.7                   | 0       | 40    | 0.35     | -       | 52      | 0                         | 3177  | 27.8     | -       | 4130    |
| 9-15-75 | 20.004         | 6.9                   | 8       | 29    | 2.3      | 0.3     | 110     | 1335                      | 4841  | 384      | 50.08   | 18363   |
| 10-6-75 | 29.135         | 5.7                   | 0       | 20    | 0.54     | 0.05    | 36      | 0                         | 8752  | 131.29   | 12.16   | 8752    |
| 11-3-75 | 20.270         | 5.7                   | 16      | 37    | 0.3      | 0.05    | 40      | 2706                      | 6266  | 50.75    | 8.46    | 6766    |
| 12-2-75 | 28.282         | 5.5                   | 8       | 46    | 0.01     | 0       | 95      | 1888                      | 10856 | 2.36     | 0       | 22421   |
| 1-5-76  | 21.925         | 6.3                   | 0       | 28    | 0.4      | 0       | 45      | 0                         | 5123  | 73.19    | 0       | 8233    |
| 2-23-76 | 203.988*       | 7.5                   | 6       | 32    | 0.5      | 0.1     | 60      | 10214                     | 54475 | 851.16   | 170.23  | 102139  |
| 3-1-76  | 45.646         | 7.5                   | 4       | 24    | 0.6      | 0       | 95      | 1523                      | 9142  | 228.55   | 0       | 36187   |
| 4-5-76  | 45.749         | 6.2                   | 4       | 24    | 0.05     | 0.02    | 65      | 1527                      | 9162  | 19.09    | 7.63    | 24815   |
| 5-10-76 | 11.990         | 6.6                   | 6       | 34    | 0        | 0.05    | 54      | 600                       | 3402  | 0        | 5.00    | 5403    |
| 6-16-76 | 63.246         | 7.1                   | 16      | 32    | 0.6      | 0.6     | 75      | 8444                      | 16889 | 316.68   | 316.68  | 39584   |
| Average | 42.423         | 6.6                   | 5.7     | 32    | 0.52     | 0.12    | 65      | 2353                      | 11214 | 190.03   | 57.02   | 23416   |

Sta. A1-4a

Location Stony Fork Control - 150 ± ft. Upstream from Mouth of Black Run

Elevation 1145

| Date    | Flow<br>M.G.D. | Water Analysis - mg/l |         |       |          |         |         | Daily Discharge - lbs/day |       |          |         |         |
|---------|----------------|-----------------------|---------|-------|----------|---------|---------|---------------------------|-------|----------|---------|---------|
|         |                | pH                    | Acidity | Alky. | Total Fe | Ferrous | Sulfate | Acidity                   | Alky. | Total Fe | Ferrous | Sulfate |
| 7-8-75  | 3.742          | 7.0                   | 0       | 64    | 0.03     | -       | 28      | 0                         | 1999  | 0.94     | -       | 874     |
| 8-7-75  | 3.802          | 8.4                   | 0       | 66    | 0.06     | -       | 56      | 0                         | 2094  | 1.90     | -       | 1777    |
| 9-16-75 | 9.669          | 7.6                   | 0       | 61    | 0.63     | 0.25    | 50      | 0                         | 4922  | 50.83    | 20.17   | 4034    |
| 10-6-75 | 12.822         | 6.0                   | 0       | 48    | 0.04     | 0       | 24      | 0                         | 5136  | 4.28     | 0       | 2568    |
| 11-3-75 | 7.422          | 6.2                   | 4       | 59    | 0.1      | 0       | 70      | 247.8                     | 3654  | 6.19     | 0       | 4335    |
| 12-3-75 | 14.825         | 5.8                   | 0       | 150   | 0.01     | 0       | 130     | 0                         | 18557 | 1.23     | 0       | 16083   |
| 1-5-76  | 9.451          | 6.5                   | 0       | 38    | 0.01     | 0       | 19      | 0                         | 2997  | 0.79     | 0       | 1498    |
| 2-23-76 | 93.406         | 8.1                   | 4       | 28    | 0.6      | 0.4     | 65      | 3117.9                    | 21825 | 467.69   | 311.8   | 50666   |
| 3-1-76  | 24.012         | 8.1                   | 2       | 30    | 0.05     | 0       | 70      | 400.8                     | 6011  | 10.01    | 0       | 14026   |
| 4-5-76  | 29.888         | 6.3                   | 4       | 36    | 0.03     | 0       | 58      | 997.7                     | 8979  | 7.48     | 0       | 14466   |
| 5-10-76 | 6.388          | 6.6                   | 0       | 46    | 0.04     | 0       | 28      | 0                         | 2452  | 2.13     | 0       | 1493    |
| 6-16-76 | 43.303         | 7.2                   | 14      | 38    | 0.3      | 0.3     | 205     | 5059.2                    | 13732 | 108.41   | 108.41  | 74081   |
| Average | 21.561         | 7.0                   | 2.3     | 55    | 0.16     | 0.10    | 67      | 818.6                     | 7696  | 55.16    | 36.70   | 15409   |

Sta. A2-1

Location Mouth of Paint Run

Elevation 1080

| Date    | Flow<br>M.G.D. | Water Analysis - mg/l |         |       |          |         |         | Daily Discharge - lbs/day |       |          |         |         |
|---------|----------------|-----------------------|---------|-------|----------|---------|---------|---------------------------|-------|----------|---------|---------|
|         |                | pH                    | Acidity | Alky. | Total Fe | Ferrous | Sulfate | Acidity                   | Alky. | Total Fe | Ferrous | Sulfate |
| 7-8-75  | 1.525          | 3.3                   | 104     | 0     | 1.9      | -       | 124     | 1324                      | 0     | 24.20    | -       | 1578    |
| 8-7-75  | 1.078          | 3.2                   | 112     | 0     | 2.74     | -       | 104     | 1008                      | 0     | 24.6     | -       | 936     |
| 9-15-75 | 3.477          | 3.2                   | 133     | 0     | 75       | 1.5     | 200     | 3859                      | 0     | 2176.2   | 43.52   | 5803    |
| 10-6-75 | 7.321          | 3.5                   | 64      | 0     | 2.7      | 0.8     | 115     | 3910                      | 0     | 164.95   | 48.88   | 7026    |
| 11-3-75 | 4.298          | 3.1                   | 88      | 0     | 1.6      | 0.3     | 160     | 3156.3                    | 0     | 57.39    | 10.76   | 5738    |
| 12-2-75 | 3.470          | 3.2                   | 72      | 0     | 1.8      | 0.45    | 375     | 2084.9                    | 0     | 52.12    | 13.03   | 10859   |
| 1-5-76  | 4.768          | 3.6                   | 64      | 0     | 1.9      | 0.35    | 135     | 2546.5                    | 0     | 75.60    | 13.93   | 5371    |
| 2-23-76 | 20.166         | 2.9                   | 50      | 0     | 3.1      | 0.1     | 325     | 8414.4                    | 0     | 521.69   | 16.83   | 54693   |
| 3-1-76  | 4.182          | 3.6                   | 48      | 0     | 3.3      | 0.75    | 100     | 1675.2                    | 0     | 115.17   | 26.17   | 3489    |
| 4-5-76  | 5.048          | 3.6                   | 46      | 0     | 2.9      | 1.65    | 115     | 1937.8                    | 0     | 122.17   | 69.51   | 4844    |
| 5-10-76 | 1.944          | 3.6                   | 60      | 0     | 1.1      | 0.6     | 205     | 973.4                     | 0     | 17.85    | 9.73    | 3325    |
| 6-15-76 | 22.189         | 3.6                   | 30      | 0     | 1.7      | 0.9     | 70      | 5555.1                    | 0     | 314.8    | 166.65  | 12962   |
| Average | 6.622          | 3.4                   | 72.6    | 0     | 8.31     | 0.74    | 169     | 3037.0                    | 0     | 305.56   | 41.90   | 9719    |

Sta. A2-2

Location A.M.D. Source - MINE DRIFT, "B" VEIN, RATTLER MINE

Elevation 1725

| Date    | Flow<br>M.G.D. | Water Analysis - mg/l |         |       |          |         |         | Daily Discharge - lbs/day |       |          |         |         |
|---------|----------------|-----------------------|---------|-------|----------|---------|---------|---------------------------|-------|----------|---------|---------|
|         |                | pH                    | Acidity | Alky. | Total Fe | Ferrous | Sulfate | Acidity                   | Alky. | Total Fe | Ferrous | Sulfate |
| 7-1-75  | 0.100          | 2.7                   | 650     | 0     | 78.0     | -       | 572     | 542                       | 0     | 65.10    | -       | 477     |
| 8-6-75  | 0.012          | 3.0                   | 488     | 0     | 123.75   | -       | 462     | 49                        | 0     | 12.40    | -       | 46      |
| 9-15-75 | 0.030          | 2.8                   | 1172    | 0     | 1800.0   | 75      | 1100    | 293                       | 0     | 450.64   | 18.80   | 275     |
| 10-6-75 | 0.138          | 3.0                   | 512     | 0     | 81.25    | 30      | 950     | 589.6                     | 0     | 93.57    | 34.55   | 1094.1  |
| 11-3-75 | 0.036          | 3.0                   | 528     | 0     | 102.5    | 57.5    | 1000    | 158.2                     | 0     | 30.71    | 17.23   | 299.6   |
| 12-2-75 | 0.076          | 2.6                   | 608     | 0     | 90.0     | 57.5    | 975     | 385.6                     | 0     | 57.08    | 36.47   | 618.4   |
| 1-5-76  | 0.100          | 2.8                   | 516     | 0     | 71.2     | 32.5    | 588     | 431.9                     | 0     | 59.60    | 27.20   | 492.2   |
| 2-10-76 | 0.066          | 2.8                   | 556     | 0     | 82.5     | 25.0    | 700     | 306.2                     | 0     | 45.44    | 13.77   | 385.5   |
| 3-1-76  | 0.183          | 2.8                   | 410     | 0     | 83.5     | 15.0    | 625     | 626.8                     | 0     | 127.66   | 22.93   | 955.5   |
| 4-4-76  | 0.261          | 2.6                   | 484     | 0     | 68.5     | 13.13   | 500     | 1054.2                    | 0     | 149.20   | 28.60   | 1089.0  |
| 5-10-76 | 0.033          | 2.8                   | 568     | 0     | 82.5     | 58.7    | 800     | 157.8                     | 0     | 22.93    | 16.31   | 222.3   |
| 6-15-76 | 0.198          | 2.4                   | 464     | 0     | 62.5     | 46.3    | 558     | 766.7                     | 0     | 103.27   | 76.50   | 922.0   |
| Average | 0.103          | 2.8                   | 579.7   | 0     | 227.18   | 41.06   | 736     | 446.8                     | 0     | 101.47   | 29.24   | 573.1   |

Sta. A2-3

Location A.M.D. Source - Mine Drift, "B" Vein, Rattler Mine

Elevation 1717

| Date    | Flow<br>M.G.D. | Water Analysis - mg/l |         |       |          |         |         | Daily Discharge - lbs/day |       |          |         |         |
|---------|----------------|-----------------------|---------|-------|----------|---------|---------|---------------------------|-------|----------|---------|---------|
|         |                | pH                    | Acidity | Alky. | Total Fe | Ferrous | Sulfate | Acidity                   | Alky. | Total Fe | Ferrous | Sulfate |
| 7-1-75  | 0.073          | 2.5                   | 840     | 0     | 166.25   | -       | 616     | 509                       | 0     | 101.00   | -       | 373     |
| 8-6-75  | 0.183          | 2.7                   | 640     | 0     | 90.5     | -       | 330     | 977                       | 0     | 138.00   | -       | 504     |
| 9-15-75 | 0.077          | 2.4                   | 1151    | 0     | 185.0    | 50      | 1500    | 740                       | 0     | 118.88   | 32.13   | 964     |
| 10-6-75 | 0.061          | 2.8                   | 984     | 0     | 212.5    | 7.5     | 1200    | 500.9                     | 0     | 108.17   | 3.82    | 610.9   |
| 11-3-75 | 0.059          | 2.7                   | 788     | 0     | 140.0    | 2.5     | 1100    | 384.7                     | 0     | 68.34    | 1.22    | 537.0   |
| 12-2-75 | 0.065          | 2.5                   | 856     | 0     | 122.0    | 5.0     | 1300    | 464.3                     | 0     | 66.18    | 2.71    | 705.2   |
| 1-5-76  | 0.073          | 2.6                   | 840     | 0     | 116.3    | 4.0     | 938     | 508.9                     | 0     | 70.46    | 2.42    | 568.3   |
| 2-10-76 | 0.048          | 2.6                   | 960     | 0     | 170.0    | 0       | 850     | 384.5                     | 0     | 68.10    | 0       | 340.4   |
| 3-1-76  | 0.059          | 2.6                   | 504     | 0     | 209.0    | 0       | 825     | 248.2                     | 0     | 102.90   | 0       | 406.2   |
| 4-4-76  | 0.059          | 2.5                   | 634     | 0     | 127.5    | 0       | 738     | 312.2                     | 0     | 62.78    | 0       | 363.4   |
| 5-10-76 | 0.052          | 2.5                   | 712     | 0     | 100.0    | 5.0     | 825     | 309.0                     | 0     | 43.39    | 2.17    | 358.0   |
| 6-15-76 | 0.066          | 2.2                   | 632     | 0     | 107.5    | 0       | 700     | 348.1                     | 0     | 59.21    | 0       | 385.5   |
| Average | 0.073          | 2.6                   | 795.1   | 0     | 145.5    | 7.40    | 910     | 473.9                     | 0     | 83.95    | 4.45    | 509.7   |

Sta. A2-4

Location A.M.D. Source - Mine Drift, "B" Vein, Rattler Mine

Elevation 1738

| Date    | Flow<br>M.G.D. | Water Analysis - mg/l |         |       |          |         |         | Daily Discharge - lbs/day |       |          |         |         |
|---------|----------------|-----------------------|---------|-------|----------|---------|---------|---------------------------|-------|----------|---------|---------|
|         |                | pH                    | Acidity | Alky. | Total Fe | Ferrous | Sulfate | Acidity                   | Alky. | Total Fe | Ferrous | Sulfate |
| 7-1-75  | 0.055          | 2.5                   | 1320    | 0     | 270.0    | -       | 880     | 608                       | 0     | 124.00   | -       | 405     |
| 8-6-75  | 0.010          | 2.6                   | 8000    | 0     | 280.0    | -       | 1100    | 668                       | 0     | 23.4     | -       | 92      |
| 9-15-75 | 0.070          | 2.5                   | 1273    | 0     | 80.0     | 80.0    | 1600    | 744                       | 0     | 46.73    | 46.73   | 935     |
| 10-6-75 | 0.038          | 2.8                   | 1430    | 0     | 362.0    | 127.5   | 1500    | 453.5                     | 0     | 114.80   | 40.43   | 475.7   |
| 11-3-75 | 0.014          | 2.6                   | 1384    | 0     | 317.0    | 65.0    | 1750    | 165.2                     | 0     | 37.83    | 7.75    | 208.8   |
| 12-2-75 | 0.022          | 2.6                   | 1144    | 0     | 216.0    | 53.8    | 1675    | 210.0                     | 0     | 39.65    | 9.88    | 307.5   |
| 1-5-76  | 0.032          | 2.6                   | 1184    | 0     | 204.0    | 38.7    | 1250    | 320.1                     | 0     | 55.16    | 10.46   | 338.0   |
| 2-10-76 | 0.016          | 2.7                   | 1000    | 0     | 217.0    | 0       | 1300    | 133.5                     | 0     | 28.97    | 0       | 173.6   |
| 3-1-76  | 0.048          | 2.5                   | 830     | 0     | 337.0    | 0       | 850     | 332.5                     | 0     | 134.99   | 0       | 340.5   |
| 4-4-76  | 0.091          | 2.5                   | 766     | 0     | 215.0    | 0       | 963     | 581.7                     | 0     | 163.27   | 0       | 731.3   |
| 5-10-76 | 0.013          | 2.5                   | 1162    | 0     | 205.7    | 48.7    | 1187    | 126.1                     | 0     | 22.32    | 5.28    | 128.8   |
| 6-15-76 | 0.061          | 2.2                   | 710     | 0     | 130.0    | 17.5    | 775     | 361.4                     | 0     | 66.18    | 8.91    | 394.5   |
| Average | 0.039          | 2.6                   | 1683.6  | 0     | 236.2    | 43.12   | 1236    | 392.0                     | 0     | 71.44    | 12.94   | 377.6   |

| Date     | Flow M.G.D. | Water Analysis - mg/1 |         |       |          |         |         | Daily Discharge - lbs/day |       |          |         |         |
|----------|-------------|-----------------------|---------|-------|----------|---------|---------|---------------------------|-------|----------|---------|---------|
|          |             | pH                    | Acidity | Alky. | Total Fe | Ferrous | Sulfate | Acidity                   | Alky. | Total Fe | Ferrous | Sulfate |
| 7- 3-75  | 2.137       | 6.2                   | 4       | 6     | 0.18     | -       | 12      | 71.3                      | 107.0 | 3.21     | -       | 214.0   |
| 8- 7-75  | 0.854       | 6.4                   | 0       | 8     | 0.56     | -       | 30      | 0                         | 57.0  | 3.99     | -       | 213.8   |
| 9-16-75  | 1.125       | 5.9                   | 12      | 10    | 1.25     | 0.93    | 125     | 112.7                     | 93.9  | 11.74    | 8.73    | 1173.5  |
| 10- 6-75 | 1.791       | 3.8                   | 0       | 0     | 0.2      | 0.1     | 24      | 0                         | 0     | 2.99     | 1.49    | 358.7   |
| 11- 3-75 | 1.945       | 4.6                   | 4       | 7     | 0.4      | 0.1     | 90      | 64.9                      | 113.6 | 6.49     | 1.62    | 1460.8  |
| 12- 3-75 | 1.477       | 3.8                   | 16      | 0     | 0.1      | 0       | 100     | 197.2                     | 0     | 1.23     | 0       | 1232.5  |
| 1- 5-76  | 1.386       | 4.0                   | 40      | 0     | 0.07     | 0       | 65      | 462.7                     | 0     | 0.81     | 0       | 751.8   |
| 2- 23-76 | 6.847 *     | 4.2                   | 20      | 4     | 0.08     | 0       | 18      | 1142.8                    | 228.6 | 4.57     | 0       | 1028.5  |
| 3- 1-76  | 3.522       | 5.3                   | 6       | 10    | 0.1      | 0       | 85      | 176.3                     | 293.9 | 2.94     | 0       | 2498.3  |
| 4- 5-76  | 3.865       | 5.5                   | 14      | 20    | 0.1      | 0.1     | 58      | 451.5                     | 645.1 | 3.23     | 3.23    | 1870.7  |
| 5-12-76  | 1.247       | 5.9                   | 4       | 6     | 0.2      | 0.1     | 25      | 41.6                      | 62.4  | 2.08     | 1.04    | 260.2   |
| 6-15-76  | 6.283       | 6.4                   | 22      | 8     | 0.4      | 0.4     | 58      | 1153.5                    | 419.5 | 20.97    | 20.97   | 3041.1  |
| Average  | 2.707       | 5.2                   | 11.8    | 7     | 0.30     | 0.17    | 58      | 322.9                     | 168.4 | 5.35     | 3.71    | 1175.3  |

| Date     | Flow M.G.D. | Water Analysis - mg/1 |         |       |          |         |         | Daily Discharge - lbs/day |       |          |         |         |
|----------|-------------|-----------------------|---------|-------|----------|---------|---------|---------------------------|-------|----------|---------|---------|
|          |             | pH                    | Acidity | Alky. | Total Fe | Ferrous | Sulfate | Acidity                   | Alky. | Total Fe | Ferrous | Sulfate |
| 7- 1-75  | 0.029       | 3.1                   | 280     | 0     | 5.75     | -       | 286     | 67                        | 0     | 1.38     | -       | 68      |
| 8- 6-75  | 0.008       | 3.2                   | 244     | 0     | 6.3      | -       | 264     | 16                        | 0     | 0.42     | -       | 18      |
| 9-15-75  | 0.080       | 3.0                   | 339     | 0     | 8        | 7.5     | 370     | 226                       | 0     | 5.34     | 5.01    | 247     |
| 10- 6-75 | 0.071       | 3.1                   | 240     | 0     | 8.2      | 4.9     | 600     | 142.2                     | 0     | 4.86     | 2.90    | 355.5   |
| 11- 3-75 | 0.043       | 3.2                   | 232     | 0     | 7.5      | 4.4     | 900     | 83.3                      | 0     | 2.69     | 1.58    | 322.9   |
| 12- 2-75 | 0.043       | 3.1                   | 232     | 0     | 9.2      | 8.75    | 675     | 83.3                      | 0     | 3.30     | 3.14    | 242.2   |
| 1- 5-76  | 0.050       | 3.2                   | 196     | 0     | 5.6      | 5.6     | 285     | 81.8                      | 0     | 2.34     | 2.34    | 118.9   |
| 2-10-76  | 0.082       | 3.5                   | 120     | 0     | 3.8      | 2.6     | 125     | 82.1                      | 0     | 2.60     | 1.78    | 85.5    |
| 3- 1-76  | 0.082       | 3.4                   | 136     | 0     | 8.0      | 3.75    | 175     | 93.0                      | 0     | 5.47     | 2.57    | 119.8   |
| 4- 5-76  | 0.103       | 3.2                   | 190     | 0     | 5.4      | 4.5     | 475     | 163.3                     | 0     | 4.64     | 3.89    | 408.3   |
| 5-10-76  | 0.019       | 3.1                   | 214     | 0     | 5.2      | 3.5     | 500     | 33.9                      | 0     | 0.82     | 0.55    | 79.3    |
| 6-15-76  | 0.082       | 2.8                   | 212     | 0     | 5.6      | 4.6     | 500     | 145.1                     | 0     | 5.83     | 3.15    | 342.2   |
| Average  | 0.058       | 3.2                   | 219.6   | 0     | 6.55     | 5.01    | 430     | 101.4                     | 0     | 3.31     | 2.69    | 200.6   |

| Date     | Flow M.G.D. | Water Analysis - mg/1 |           |       |          |         |         | Daily Discharge - lbs/day |       |          |         |         |
|----------|-------------|-----------------------|-----------|-------|----------|---------|---------|---------------------------|-------|----------|---------|---------|
|          |             | pH                    | Acidity   | Alky. | Total Fe | Ferrous | Sulfate | Acidity                   | Alky. | Total Fe | Ferrous | Sulfate |
| 7- 9-75  | 0.239       | 4.0                   | 36        | 0     | 1.2      | -       | 50      | 72                        | 0     | 2.39     | -       | 100     |
| 8- 7-75  | 0.161       | 4.0                   | 32        | 0     | 1.5      | -       | 54      | 43                        | 0     | 2.02     | -       | 73      |
| 9-16-75  | 0.672       | 3.8                   | 61        | 0     | 1.5      | 0.5     | 70      | 342                       | 0     | 8.41     | 2.80    | 393     |
| 10- 7-75 | 1.413       | 4.2                   | 32        | 4     | 0.25     | 0.1     | 40      | 377.3                     | 47.2  | 2.94     | 1.18    | 471.7   |
| 11- 3-75 | 0.585       | 3.7                   | 32        | 0     | 0.3      | 0.15    | 75      | 156.2                     | 0     | 1.46     | 0.73    | 366.1   |
| 12- 8-75 | 0.745       | 4.6                   | 20        | 10    | 0.2      | 0       | 50      | 124.3                     | 62.2  | 1.24     | 0       | 310.9   |
| 1- 5-76  | 0.844       | 4.3                   | 20        | 2     | 0.06     | 0       | 90      | 140.8                     | 14.1  | 0.42     | 0       | 633.6   |
| 2-10-76  |             |                       | NO SAMPLE | TAKEN |          |         |         |                           |       |          |         |         |
| 3- 1-76  | 1.689       | 4.3                   | 12        | 4     | 0.2      | 0.05    | 60      | 169.1                     | 56.4  | 2.82     | 0.70    | 845.7   |
| 4- 5-76  | 1.480       | 4.4                   | 16        | 2     | 0.2      | 0.2     | 65      | 197.6                     | 24.7  | 2.47     | 2.47    | 802.8   |
| 5-12-76  | 1.292       | -                     | 12        | 0     | 0.1      | 0.1     | 58      | 129.4                     | 0     | 1.08     | 1.08    | 625.4   |
| 6-15-76  | 5.149       | 4.5                   | 16        | 6     | 0.5      | 0.5     | 70      | 687.5                     | 257.8 | 21.48    | 21.48   | 3007.8  |
| Average  | 1.297       | 3.8                   | 26.3      | 3     | 0.55     | 0.18    | 62      | 221.7                     | 42.0  | 4.25     | 3.38    | 693.6   |

| Date    | Flow<br>M.G.D. | Water Analysis - mg/1 |         |       |          |         |         | Daily Discharge - lbs/day |       |          |         |         |
|---------|----------------|-----------------------|---------|-------|----------|---------|---------|---------------------------|-------|----------|---------|---------|
|         |                | pH                    | Acidity | Alky. | Total Fe | Ferrous | Sulfate | Acidity                   | Alky. | Total Fe | Ferrous | Sulfate |
| 7-3-75  | 1.183          | 4.6                   | 16      | 4     | 0.18     | -       | 50      | 157.9                     | 39.5  | 1.78     | -       | 493.6   |
| 8-7-75  | 0.131          | 4.6                   | 34      | 4     | 0.03     | -       | 58      | 37.2                      | 4.4   | 0.03     | -       | 63.4    |
| 9-16-75 | 0.543          | 4.9                   | 16      | 8     | 0.5      | 0       | 25      | 72.5                      | 36.3  | 2.26     | 0       | 113.2   |
| 10-6-75 | 1.514          | 4.5                   | 40      | 12    | 0.15     | 0       | 32      | 505.4                     | 151.6 | 1.90     | 0       | 404.3   |
| 11-3-75 | 0.399          | 3.6                   | 136     | 0     | 0.01     | 0       | 130     | 452.8                     | 0     | 0.03     | 0       | 432.9   |
| 12-3-75 | 1.008          | 4.6                   | 48      | 60    | 0        | 0       | 263     | 403.8                     | 504.7 | 0        | 0       | 2212.3  |
| 1-5-76  | 0.776          | 4.8                   | 20      | 6     | 0.01     | 0       | 70      | 129.5                     | 38.9  | 0.06     | 0       | 453.3   |
| 2-23-76 | 3.496          | 3.7                   | 20      | 0     | 0.05     | 0       | 150     | 583.5                     | 0     | 1.45     | 0       | 4376.2  |
| 3-1-76  | 1.562          | 4.6                   | 12      | 4     | 0.03     | 0       | 75      | 156.4                     | 52.14 | 0.39     | 0       | 977.6   |
| 4-5-76  | 1.873          | 4.6                   | 12      | 8     | 0.05     | 0       | 70      | 187.6                     | 125.0 | 0.78     | 0       | 1094.1  |
| 5-10-76 | 0.236          | 4.8                   | 14      | 2     | 0.1      | 0.05    | 65      | 27.6                      | 3.9   | 0.20     | 0.10    | 128.0   |
| 6-15-76 | 8.159          | 4.6                   | 16      | 6     | 0.5      | 0.5     | 65      | 1089.4                    | 408.5 | 34.04    | 34.04   | 4425.7  |
| Average | 1.740          | 4.5                   | 32.0    | 10    | 0.13     | 0.06    | 88      | 317.0                     | 113.7 | 3.58     | 3.41    | 1264.7  |

Sta. A3-4

Location A.M.D. Source - Mine Drift, "B" Vein, Rattler "Annex"

Elevation 1852

| Date    | Flow<br>M.G.D. | Water Analysis - mg/1 |         |       |          |         |         | Daily Discharge - lbs/day |       |          |         |         |
|---------|----------------|-----------------------|---------|-------|----------|---------|---------|---------------------------|-------|----------|---------|---------|
|         |                | pH                    | Acidity | Alky. | Total Fe | Ferrous | Sulfate | Acidity                   | Alky. | Total Fe | Ferrous | Sulfate |
| 7-1-75  | 0.033          | 3.4                   | 90      | 0     | 0.68     | -       | 30      | 24                        | 0     | 0.18     | -       | 8       |
| 8-6-75  | 0.008          | 3.5                   | 44      | 0     | 1.34     | -       | 42      | 3                         | 0     | 0.09     | -       | 3       |
| 9-15-75 | 0.026          | 3.4                   | 57      | 0     | 3.13     | 0.25    | 90      | 12                        | 0     | 0.68     | 0.05    | 20      |
| 10-6-75 | 0.032          | 3.0                   | 56      | 0     | 1.25     | 0.4     | 105     | 14.9                      | 0     | 0.33     | 0.11    | 28.0    |
| 11-3-75 | 0.024          | 3.3                   | 56      | 0     | 1.0      | 0.1     | 90      | 11.2                      | 0     | 0.20     | 0.02    | 18.0    |
| 12-2-75 | 0.021          | 3.0                   | 54      | 0     | 0.83     | 0.05    | 108     | 9.6                       | 0     | 0.15     | 0.01    | 18.9    |
| 1-5-76  | 0.043          | 3.5                   | 44      | 0     | 0.06     | 0       | 100     | 15.7                      | 0     | 0.02     | 0       | 35.8    |
| 2-10-76 | 0.023          | 3.8                   | 36      | 0     | 0.7      | 0.3     | 110     | 6.9                       | 0     | 0.13     | 0.06    | 21.1    |
| 3-1-76  | 0.061          | 3.5                   | 50      | 0     | 0.9      | 0       | 85      | 25.4                      | 0     | 0.45     | 0       | 43.2    |
| 4-4-76  | 0.059          | 3.5                   | 32      | 0     | 0.5      | 0.15    | 100     | 15.6                      | 0     | 0.24     | 0.07    | 48.8    |
| 5-10-76 | 0.023          | 3.5                   | 46      | 0     | 0.5      | 0.35    | 65      | 8.8                       | 0     | 0.10     | 0.07    | 12.4    |
| 6-15-76 | 0.035          | 3.2                   | 50      | 0     | 0.5      | 0.2     | 83      | 14.6                      | 0     | 0.15     | 0.06    | 24.2    |
| Average | 0.032          | 3.4                   | 51.3    | 0     | 0.95     | 0.18    | 84      | 13.5                      | 0     | 0.23     | 0.05    | 23.5    |

Sta. B1-1 Location Wilson Creek Control - Mouth of Stream Elevation 1010

| Date    | Flow M.G.D. | Water Analysis - mg/l |         |       |          |         |         | Daily Discharge - lbs/day |       |          |         |         |
|---------|-------------|-----------------------|---------|-------|----------|---------|---------|---------------------------|-------|----------|---------|---------|
|         |             | pH                    | Acidity | Alky. | Total Fe | Ferrous | Sulfate | Acidity                   | Alky. | Total Fe | Ferrous | Sulfate |
| 7-3-75  | 12.900      | 3.7                   | 52      | 0     | 0.59     | -       | 128     | 5598                      | 0     | 63.52    | -       | 13780   |
| 8-5-75  | 6.903       | 3.5                   | 88      | 0     | 0.57     | -       | 202     | 5069                      | 0     | 32.8     | -       | 11636   |
| 9-17-75 | 12.862      | 4.4                   | 40      | 3     | 1        | 0.25    | 92      | 4293                      | 322   | 107.34   | 26.83   | 9875    |
| 10-7-75 | 20.569      | 3.5                   | 40      | 0     | 1.6      | 0.20    | 140     | 6866                      | 0     | 274.64   | 33.33   | 24031   |
| 11-4-75 | 13.633      | 3.6                   | 16      | 0     | 0.9      | 0.40    | 140     | 1820                      | 0     | 102.39   | 45.51   | 15927   |
| 12-3-75 | 17.075      | 4.0                   | 32      | 0     | 1.0      | 0.30    | 155     | 4559                      | 0     | 142.49   | 42.75   | 22086   |
| 1-5-76  | 16.091      | 4.0                   | 44      | 0     | 1.3      | 0.50    | 160     | 5908                      | 0     | 174.57   | 67.14   | 21485   |
| 2-13-76 | 69.984*     | 7.2                   | 6       | 24    | 1.5      | 0.40    | 100     | 3504                      | 14015 | 875.99   | 233.60  | 58399   |
| 3-2-76  | 28.839      | 3.8                   | 28      | 0     | 1.2      | 0.15    | 85      | 6738                      | 0     | 288.80   | 36.10   | 20456   |
| 4-6-76  | 36.933      | 4.3                   | 24      | 2     | 1.0      | 0.40    | 108     | 7397                      | 616   | 308.21   | 123.28  | 33286   |
| 5-11-76 | 18.235      | 3.9                   | 32      | 0     | 2.8      | 0.30    | 120     | 4893                      | 0     | 428.19   | 45.88   | 18351   |
| 6-16-76 | 44.255      | 4.3                   | 28      | 8     | 0.7      | 0.35    | 75      | 10340                     | 2954  | 258.52   | 129.26  | 27698   |
| Average | 24.864      | 4.2                   | 35.8    | 3     | 1.18     | 0.313   | 125     | 5582                      | 1492  | 254.79   | 78.37   | 23084   |

Sta. B1-4b Location Mouth of Basswood Run Elevation 1130

| Date    | Flow M.G.D. | Water Analysis - mg/l |         |       |          |         |         | Daily Discharge - lbs/day |       |          |         |         |
|---------|-------------|-----------------------|---------|-------|----------|---------|---------|---------------------------|-------|----------|---------|---------|
|         |             | pH                    | Acidity | Alky. | Total Fe | Ferrous | Sulfate | Acidity                   | Alky. | Total Fe | Ferrous | Sulfate |
| 7-3-75  | 1.241       | 2.8                   | 280     | 0     | 1.54     | -       | 176     | 2900                      | 0     | 15.95    | -       | 1823    |
| 8-5-75  | 0.530       | 2.7                   | 384     | 0     | 18.2     | -       | 196     | 1701                      | 0     | 80.64    | -       | 868     |
| 9-17-75 | 1.163       | 2.9                   | 264     | 0     | 35.0     | 0.25    | 750     | 2195                      | 0     | 339.69   | 2.43    | 7279    |
| 10-7-75 | 1.635       | 2.9                   | 240     | 0     | 2.2      | 0.5     | 650     | 3274                      | 0     | 30.02    | 6.82    | 8868    |
| 11-4-75 | 0.844       | 2.8                   | 240     | 0     | 20.0     | 0.5     | 800     | 1690                      | 0     | 140.86   | 3.52    | 5634    |
| 12-4-75 | 0.740       | 2.9                   | 204     | 0     | 11.5     | 5.0     | 500     | 1259                      | 0     | 71.02    | 30.88   | 3087    |
| 1-6-76  | 1.338       | 2.9                   | 242     | 0     | 16.2     | 0.9     | 263     | 2702                      | 0     | 180.89   | 10.05   | 2936    |
| 2-13-76 | 5.416*      | 3.2                   | 186     | 0     | 18.2     | 0       | 325     | 8406                      | 0     | 822.59   | 0       | 14689   |
| 3-2-76  | 1.528       | 3.0                   | 164     | 0     | 11.4     | 0       | 170     | 2091                      | 0     | 145.37   | 0       | 2167    |
| 4-6-76  | 1.941       | 3.4                   | 166     | 0     | 9.9      | 0       | 255     | 2688                      | 0     | 160.36   | 0       | 4130    |
| 5-11-76 | 1.868       | 3.0                   | 190     | 0     | 12.5     | 2.5     | 475     | 2961                      | 0     | 194.86   | 38.97   | 7404    |
| 6-16-76 | 3.658       | 2.7                   | 140     | 0     | 6.4      | 0       | 413     | 4273                      | 0     | 195.4    | 0       | 12607   |
| Average | 1.825       | 2.9                   | 225     | 0     | 13.59    | 0.97    | 414     | 3012                      | 0     | 198.13   | 9.27    | 5958    |

Sta. B1-5 Location A.M.D. Source - Water Course at Hunter Drift, Anna S. Mine Elevation 1669

| Date    | Flow M.G.D. | Water Analysis - mg/l |         |       |          |         |         | Daily Discharge - lbs/day |       |          |         |         |
|---------|-------------|-----------------------|---------|-------|----------|---------|---------|---------------------------|-------|----------|---------|---------|
|         |             | pH                    | Acidity | Alky. | Total Fe | Ferrous | Sulfate | Acidity                   | Alky. | Total Fe | Ferrous | Sulfate |
| 7-1-75  | 0.672       | 2.8                   | 450     | 0     | 32.25    | -       | 264     | 2524                      | 0     | 181      | -       | 1480    |
| 8-6-75  | 0.252       | 2.8                   | 380     | 0     | 55.5     | -       | 330     | 799                       | 0     | 117      | -       | 694     |
| 9-16-75 | 0.331       | 2.7                   | 436     | 0     | 37.5     | 1.4     | 450     | 1204                      | 0     | 103.58   | 3.87    | 1243    |
| 10-7-75 | 0.685       | 2.8                   | 344     | 0     | 43.2     | 1.9     | 750     | 1966.4                    | 0     | 246.95   | 10.86   | 4287.3  |
| 11-4-75 | 0.214       | 3.3                   | 336     | 0     | 40.0     | 2.0     | 800     | 599.2                     | 0     | 71.33    | 3.57    | 1426.7  |
| 12-2-75 | 0.385       | 2.7                   | 376     | 0     | 43.0     | 1.9     | 450     | 1208.0                    | 0     | 138.15   | 6.10    | 1445.8  |
| 1-5-76  | 0.493       | 2.8                   | 318     | 0     | 33.2     | 0.5     | 388     | 1308.8                    | 0     | 136.65   | 2.05    | 1596.9  |
| 2-11-76 | 0.409       | 3.2                   | 340     | 0     | 32.0     | 0       | 437     | 1160.5                    | 0     | 109.22   | 0       | 1491.6  |
| 3-2-76  | 0.946       | 3.0                   | 254     | 0     | 43.7     | 0       | 425     | 2005.2                    | 0     | 344.99   | 0       | 3355.2  |
| 4-6-76  | 1.315       | 3.2                   | 276     | 0     | 30.0     | 0       | 575     | 3028.8                    | 0     | 329.22   | 0       | 6309.9  |
| 5-10-76 | 0.340       | 2.8                   | 336     | 0     | 35.2     | 2.5     | 412     | 953.4                     | 0     | 99.87    | 7.09    | 1169.0  |
| 6-15-76 | 0.684       | 2.4                   | 332     | 0     | 27.5     | 1.70    | 438     | 1895.1                    | 0     | 156.97   | 9.70    | 2500.1  |
| Average | 0.561       | 2.9                   | 348.2   | 0     | 37.75    | 1.02    | 477     | 1554.4                    | 0     | 169.5    | 4.32    | 2250.0  |

Sta. B1-7

Location - Mouth of Wilson Run

Elevation 1180

| Date     | Flow<br>M.G.D. | Water Analysis - mg/1 |         |       |          |         |         | Daily Discharge - lbs/day |       |          |         |         |
|----------|----------------|-----------------------|---------|-------|----------|---------|---------|---------------------------|-------|----------|---------|---------|
|          |                | pH                    | Acidity | Alky. | Total Fe | Ferrous | Sulfate | Acidity                   | Alky. | Total Fe | Ferrous | Sulfate |
| 7- 3-75  | 0.097          | 4.8                   | 6       | 4     | 0.12     | -       | 12      | 5                         | 3     | 0.10     | -       | 10      |
| 8- 5-75  | 0.007          | 4.6                   | 12      | 4     | 0.17     | -       | 12      | 1                         | 0.2   | 0.01     | -       | 1       |
| 9-17-75  | 0.065          | 4.8                   | 12      | 6     | 1.3      | 0.13    | 10      | 7                         | 3     | 0.71     | 0.07    | 5       |
| 10- 7-75 | 0.202          | 4.3                   | 16      | 8     | 0.01     | 0       | 26      | 27.0                      | 13.5  | 0.02     | 0       | 43.8    |
| 11- 4-75 | 0.114          | 4.2                   | 12      | 0     | 0.05     | 0       | 38      | 11.4                      | 0     | 0.05     | 0       | 36.1    |
| 12- 3-75 | 0.251          | 4.8                   | 16      | 6     | 0.03     | 0       | 46      | 33.5                      | 12.60 | 0        | 0       | 96.4    |
| 1- 6-76  | 0.130          | 4.9                   | 16      | 20    | 0.01     | 0       | 35      | 17.3                      | 21.70 | 0.01     | 0       | 37.9    |
| 2-13-76  | 0.705          | 5.1                   | 10      | 10    | 0.06     | 0       | 90      | 58.8                      | 58.8  | 0.35     | 0       | 529.5   |
| 3- 2-76  | 0.396          | 4.7                   | 4       | 4     | 0.04     | 0       | 60      | 13.2                      | 13.2  | 0.13     | 0       | 198.3   |
| 4- 6-76  | 0.535          | 4.8                   | 6       | 8     | 0.07     | 0       | 83      | 26.8                      | 35.7  | 0.31     | 0       | 370.6   |
| 5-11-76  | 0.653          | 4.8                   | 6       | 0     | 0.1      | 0.1     | 108     | 32.7                      | 0     | 0.54     | 0.54    | 588.5   |
| 6-15-76  | 2.189          | 6.7                   | 20      | 4     | 0.25     | 0.25    | 58      | 365.4                     | 73.1  | 4.57     | 4.57    | 1059.5  |
| Average  | 0.445          | 4.9                   | 11.3    | 6     | 0.18     | 0.05    | 47      | 49.9                      | 19.6  | 0.57     | 0.52    | 248.1   |

Sta. B1-8

Location - Mouth of Bridge Run

Elevation 1210

| Date     | Flow<br>M.G.D. | Water Analysis - mg/1 |         |       |          |         |         | Daily Discharge - lbs/day |       |          |         |         |
|----------|----------------|-----------------------|---------|-------|----------|---------|---------|---------------------------|-------|----------|---------|---------|
|          |                | pH                    | Acidity | Alky. | Total Fe | Ferrous | Sulfate | Acidity                   | Alky. | Total Fe | Ferrous | Sulfate |
| 7- 3-75  | 2.274          | 3.1                   | 146     | 0     | 3.54     | -       | 220     | 2771                      | 0     | 67.2     | -       | 4175    |
| 8- 5-75  | 1.012          | 3.1                   | 160     | 0     | 6.5      | -       | 264     | 1351                      | 0     | 54.9     | -       | 2230    |
| 9-16-75  | 3.212          | 3.2                   | 129     | 0     | 5.0      | 0.25    | 800     | 3458                      | 0     | 134.2    | 6.70    | 21444   |
| 10- 7-75 | 5.238          | 3.0                   | 160     | 0     | 12.76    | 0.25    | 700     | 6993                      | 0     | 557.8    | 10.93   | 30598   |
| 11- 4-75 | 3.330          | 3.6                   | 128     | 0     | 5.8      | 0.35    | 525     | 3557                      | 0     | 161.18   | 9.73    | 14589   |
| 12- 3-75 | 3.487          | 3.2                   | 100     | 0     | 5.2      | 0.1     | 450     | 2909                      | 0     | 151.32   | 2.91    | 13094   |
| 1- 6-76  | 5.522          | 3.2                   | 104     | 0     | 4.8      | 0.35    | 220     | 4792                      | 0     | 221.19   | 16.13   | 10138   |
| 2-13-76  | 3.783          | 3.7                   | 100     | 0     | 4.0      | 0       | 250     | 3157                      | 0     | 126.28   | 0       | 7892    |
| 3- 2-76  | 4.708          | 3.4                   | 104     | 0     | 4.4      | 0       | 185     | 4086                      | 0     | 172.87   | 0       | 7268    |
| 4- 6-76  | 5.497          | 3.3                   | 110     | 0     | 3.2      | 0       | 190     | 5047                      | 0     | 146.82   | 0       | 8717    |
| 5-11-76  | 2.476          | 3.4                   | 106     | 0     | 4.3      | 0.6     | 245     | 2190                      | 0     | 88.85    | 12.40   | 5062    |
| 6-15-76  | 5.870          | 3.2                   | 64      | 0     | 2.2      | 1.05    | 133     | 3135                      | 0     | 107.77   | 51.44   | 6575    |
| Average  | 3.867          | 3.3                   | 117.6   | 0     | 5.14     | 0.30    | 348     | 3620                      | 0     | 165.87   | 11.02   | 10977   |

Sta. B1-12c

Location Wilson Creek Control - 300 ± ft. Downstream from Mouth of Sand Run

Elevation 1310

| Date     | Flow<br>M.G.D. | Water Analysis - mg/1 |         |       |          |         |         | Daily Discharge - lbs/day |       |          |         |         |
|----------|----------------|-----------------------|---------|-------|----------|---------|---------|---------------------------|-------|----------|---------|---------|
|          |                | pH                    | Acidity | Alky. | Total Fe | Ferrous | Sulfate | Acidity                   | Alky. | Total Fe | Ferrous | Sulfate |
| 7- 3-75  | 1.525          | 7.1                   | 0       | 38    | 0.05     | -       | 26      | 0                         | 484   | 6.36     | -       | 331     |
| 8- 5-75  | 2.430          | 7.9                   | 0       | 52    | 0.04     | -       | 12      | 0                         | 1054  | 0.81     | -       | 243     |
| 9-16-75  | 6.347          | 7.9                   | 0       | 53    | 0.75     | 0       | 9.5     | 0                         | 2807  | 39.73    | 0       | 503     |
| 10- 7-75 | 9.083          | 5.8                   | 24      | 52    | 0.04     | 0       | 28      | 1819                      | 3941  | 3.03     | 0       | 2122    |
| 11- 4-75 | 5.210          | 6.2                   | 8       | 41    | 0.05     | 0       | 38      | 347                       | 1782  | 2.17     | 0       | 1652    |
| 12- 4-75 | 9.489          | 7.4                   | 0       | 34    | 0.05     | 0       | 45      | 0                         | 2692  | 3.96     | 0       | 3563    |
| 1- 5-76  | 7.057          | 6.5                   | 2       | 28    | 0.02     | 0       | 33      | 117                       | 1648  | 1.18     | 0       | 1943    |
| 2-13-76  | 30.695         | 7.9                   | 6       | 38    | 0.30     | 0.10    | 75      | 1536                      | 9733  | 76.85    | 25.62   | 19211   |
| 3- 2-76  | 17.500         | 8.1                   | 2       | 32    | 0.1      | 0       | 75      | 292                       | 4673  | 14.60    | 0       | 10953   |
| 4- 6-76  | 18.659         | 6.2                   | 8       | 28    | 0.02     | 0       | 88      | 1245                      | 4359  | 3.11     | 0       | 13702   |
| 5-11-76  | 8.478          | 6.6                   | 2       | 80    | 0.1      | 0.1     | 65      | 141                       | 2122  | 7.08     | 7.08    | 4598    |
| 6-15-76  | 49.810         | 6.5                   | 20      | 28    | 0.5      | 0.5     | 70      | 8313                      | 11638 | 207.8    | 207.8   | 29097   |
| Average  | 13.857         | 7.0                   | 6.0     | 38    | 0.17     | 0.07    | 47      | 1151                      | 3911  | 30.56    | 24.05   | 7326    |

Sta. B1-13<sup>a</sup> Location Wilson Creek immediately upstream from Anna S. Spoil Pile Elevation 1220

| Date      | Flow M.G.D. | Water Analysis - mg/l |         |       |          |         |         | Daily Discharge - lbs/day |       |          |         |         |
|-----------|-------------|-----------------------|---------|-------|----------|---------|---------|---------------------------|-------|----------|---------|---------|
|           |             | pH                    | Acidity | Alky. | Total Fe | Ferrous | Sulfate | Acidity                   | Alky. | Total Fe | Ferrous | Sulfate |
| 2-23-76   | Unknown     | 7.1                   | 8       | 10    | 0.15     | 0       | 50      |                           |       |          |         |         |
| 3- 2-76   | Unknown     | 7.3                   | 2       | 14    | 0.08     | 0       | 85      |                           |       |          |         |         |
| 4- 6-76   | Unknown     | 6.2                   | 4       | 30    | 0.2      | 0.05    | 41      |                           |       |          |         |         |
| 5-13-76   | Unknown     | 6.2                   | 0       | 28    | 0.1      | 0.1     | 29      |                           |       |          |         |         |
| 6-15-76   | Unknown     | 6.8                   | 12      | 24    | 0.3      | 0.25    | 50      |                           |       |          |         |         |
|           |             |                       |         |       |          |         |         |                           |       |          |         |         |
|           |             |                       |         |       |          |         |         |                           |       |          |         |         |
|           |             |                       |         |       |          |         |         |                           |       |          |         |         |
|           |             |                       |         |       |          |         |         |                           |       |          |         |         |
|           |             |                       |         |       |          |         |         |                           |       |          |         |         |
|           |             |                       |         |       |          |         |         |                           |       |          |         |         |
|           |             |                       |         |       |          |         |         |                           |       |          |         |         |
| Average * | Unknown     | 6.7                   | 5.2     | 21.2  | 0.17     | 0.08    | 51      |                           |       |          |         |         |

Sta. B1-13<sup>c</sup> Location Wilson Creek at point 600 ± feet downstream from Spoil Pile. Elevation 1215

| Date      | Flow M.G.D. | Water Analysis - mg/l |         |       |          |         |         | Daily Discharge - lbs/day |       |          |         |         |
|-----------|-------------|-----------------------|---------|-------|----------|---------|---------|---------------------------|-------|----------|---------|---------|
|           |             | pH                    | Acidity | Alky. | Total Fe | Ferrous | Sulfate | Acidity                   | Alky. | Total Fe | Ferrous | Sulfate |
| 2-23-76   | Unknown     | 7.1                   | 8       | 8     | 0.15     | 0       | 60      |                           |       |          |         |         |
| 3- 2-76   | Unknown     | 8.0                   | 4       | 18    | 0.02     | 0       | 75      |                           |       |          |         |         |
| 4- 6-76   | Unknown     | 6.1                   | 2       | 24    | 0.1      | 0.05    | 38      |                           |       |          |         |         |
| 5-13-76   | Unknown     | 6.3                   | 0       | 28    | 0.05     | 0       | 38      |                           |       |          |         |         |
| 6-15-76   | Unknown     | 6.8                   | 12      | 26    | 0.3      | 0.3     | 65      |                           |       |          |         |         |
|           |             |                       |         |       |          |         |         |                           |       |          |         |         |
|           |             |                       |         |       |          |         |         |                           |       |          |         |         |
|           |             |                       |         |       |          |         |         |                           |       |          |         |         |
|           |             |                       |         |       |          |         |         |                           |       |          |         |         |
|           |             |                       |         |       |          |         |         |                           |       |          |         |         |
|           |             |                       |         |       |          |         |         |                           |       |          |         |         |
|           |             |                       |         |       |          |         |         |                           |       |          |         |         |
| Average * | Unknown     | 6.7                   | 5.0     | 22.8  | 0.14     | 0.09    | 53      |                           |       |          |         |         |

Sta. B1-14 Location A.M.D. Source - Mine Drift, "B" Vein, Antrim # 1 Mine Elevation 1650

| Date     | Flow M.G.D. | Water Analysis - mg/l |         |       |          |         |         | Daily Discharge - lbs/day |       |          |         |         |
|----------|-------------|-----------------------|---------|-------|----------|---------|---------|---------------------------|-------|----------|---------|---------|
|          |             | pH                    | Acidity | Alky. | Total Fe | Ferrous | Sulfate | Acidity                   | Alky. | Total Fe | Ferrous | Sulfate |
| 7- 1-75  | 1.712       | 3.1                   | 1000    | 0     | 3.36     | -       | 220     | 14287                     | 0     | 48.00    | -       | 3143    |
| 8- 5-75  | 1.014       | 3.1                   | 184     | 0     | 8.9      | -       | 330     | 1579                      | 0     | 76.4     | -       | 2832    |
| 9-16-75  | 1.383       | 3.0                   | 194     | 0     | 12.5     | 0.75    | 583     | 2239                      | 0     | 144.27   | 8.66    | 6729    |
| 10- 7-75 | 3.391       | 3.1                   | 192     | 0     | 19.0     | 1.25    | 750     | 5433.3                    | 0     | 537.67   | 35.37   | 21223.8 |
| 11- 4-75 | 1.850       | 3.6                   | 136     | 0     | 8.8      | 1.0     | 900     | 2099.6                    | 0     | 135.86   | 15.44   | 13894.7 |
| 12- 3-75 | 2.291       | 3.0                   | 168     | 0     | 8.7      | 4.0     | 325     | 3211.9                    | 0     | 166.33   | 76.48   | 6213.6  |
| 1- 8-76  | 3.224       | 3.2                   | 156     | 0     | 6.9      | 1.0     | 300     | 4197.1                    | 0     | 185.64   | 26.90   | 8071.4  |
| 2-13-76  | 2.208       | 3.5                   | 150     | 0     | 6.8      | 0       | 275     | 2763.9                    | 0     | 125.30   | 0       | 5067.2  |
| 3- 2-76  | 3.331       | 3.3                   | 140     | 0     | 10.2     | 0       | 550     | 3891.7                    | 0     | 283.54   | 0       | 15228.8 |
| 4- 6-76  | 3.309       | 3.2                   | 10      | 0     | 4.6      | 0       | 210     | 276.1                     | 0     | 127.03   | 0       | 5799.0  |
| 5-13-76  | 1.867       | 3.2                   | 132     | 0     | 6.5      | 0.5     | 600     | 2056.6                    | 0     | 101.27   | 7.79    | 9348.2  |
| 6-15-76  | 2.513       | 2.9                   | 152     | 0     | 5.3      | 1.15    | 88      | 3187.7                    | 0     | 111.15   | 24.12   | 1845.5  |
| Average  | 2.341       | 3.2                   | 217.8   | 0     | 8.46     | 0.97    | 428     | 3768.6                    | 0     | 170.21   | 19.48   | 8288.0  |

Sta. B1-16

Location A.M.D. Source - Mine Drift, "B" Vein, Antrim Switchback Entry

Elevation 1704

| Date     | Flow  | Water Analysis - mg/l |         |       |          |         |         | Daily Discharge - lbs/day |       |          |         |         |
|----------|-------|-----------------------|---------|-------|----------|---------|---------|---------------------------|-------|----------|---------|---------|
|          |       | pH                    | Acidity | Alky. | Total Fe | Ferrous | Sulfate | Acidity                   | Alky. | Total Fe | Ferrous | Sulfate |
| 7- 1-75  | 0.086 | 3.0                   | 650     | 0     | 4.6      | -       | 154     | 465                       | 0     | 3.29     | -       | 110     |
| 8- 5-75  | 0.045 | 3.0                   | 250     | 0     | 6.2      | -       | 308     | 94                        | 0     | 2.33     | -       | 116     |
| 9-16-75  | 0.180 | 2.9                   | 299     | 0     | 14       | 0.5     | 3500    | 449                       | 0     | 21.03    | 0.75    | 5257    |
| 10- 7-75 | 0.174 | 3.1                   | 168     | 0     | 3.71     | 0.25    | 400     | 243.9                     | 0     | 5.38     | 0.36    | 580.8   |
| 11- 4-75 | 0.061 | 3.4                   | 184     | 0     | 4.1      | 0.1     | 700     | 93.7                      | 0     | 2.09     | 0.05    | 356.3   |
| 12- 3-75 | 0.091 | 2.9                   | 224     | 0     | 5.0      | 0.07    | 375     | 170.1                     | 0     | 3.80     | 0.05    | 284.8   |
| 1- 6-76  | 0.189 | 3.0                   | 180     | 0     | 4.2      | 0.2     | 290     | 283.9                     | 0     | 6.62     | 0.32    | 457.4   |
| 2-13-76  | 0.120 | 3.5                   | 186     | 0     | 3.8      | 0       | 310     | 186.3                     | 0     | 3.81     | 0       | 310.4   |
| 3- 2-76  | 0.235 | 3.2                   | 130     | 0     | 3.8      | 0       | 205     | 254.9                     | 0     | 7.45     | 0       | 402.0   |
| 4- 6-76  | 0.434 | 3.1                   | 160     | 0     | 3.4      | 0       | 185     | 579.5                     | 0     | 12.31    | 0       | 670.0   |
| 5-11-76  | 0.113 | 3.0                   | 164     | 0     | 3.9      | 0.2     | 637     | 154.7                     | 0     | 3.68     | 0.19    | 600.7   |
| 6-15-76  | 0.162 | 2.6                   | 236     | 0     | 3.5      | 0.4     | 414     | 319.1                     | 0     | 4.73     | 0.54    | 572.8   |
| Average  | 0.158 | 3.1                   | 235.9   | 0     | 5.02     | 0.17    | 623     | 274.5                     | 0     | 6.38     | 0.23    | 808.8   |

Sta. B1-20

Location A.M.D. Source - Main Entry, "B" Vein, Anna S. Mine

Elevation 1683

| Date     | Flow<br>M.G.D. | Water Analysis - mg/l |         |       |          |         |         | Daily Discharge - lbs/day |       |          |         |         |
|----------|----------------|-----------------------|---------|-------|----------|---------|---------|---------------------------|-------|----------|---------|---------|
|          |                | pH                    | Acidity | Alky. | Total Fe | Ferrous | Sulfate | Acidity                   | Alky. | Total Fe | Ferrous | Sulfate |
| 7- 1-75  | 0.708          | 3.0                   | 270     | 0     | 9.1      | -       | 198     | 1595                      | 0     | 53.8     | -       | 1170    |
| 8- 5-75  | 0.228          | 3.0                   | 228     | 0     | 8.6      | -       | 154     | 434                       | 0     | 16.4     | -       | 293     |
| 9-16-75  | 0.131          | 3.0                   | 218     | 0     | 9.5      | 0.4     | 383     | 238                       | 0     | 10.39    | 0.44    | 419     |
| 10- 7-75 | 0.698          | 2.9                   | 308     | 0     | 32.2     | 0.8     | 900     | 1794.1                    | 0     | 187.56   | 4.66    | 5242.4  |
| 11- 4-75 | 0.5659         | 3.4                   | 232     | 0     | 15.0     | 0.25    | 700     | 1095.6                    | 0     | 70.84    | 1.18    | 3305.8  |
| 12- 2-75 | 0.429          | 2.9                   | 260     | 0     | 10.2     | 0.65    | 400     | 930.8                     | 0     | 36.52    | 2.33    | 1432.0  |
| 1- 5-76  | 0.692          | 3.0                   | 208     | 0     | 7.7      | 0.3     | 288     | 1200.6                    | 0     | 44.44    | 1.73    | 1662.4  |
| 2-11-76  | 0.477          | 3.3                   | 170     | 0     | 8.3      | 0       | 350     | 676.7                     | 0     | 33.04    | 0       | 1393.2  |
| 3- 2-76  | 1.063          | 2.9                   | 176     | 0     | 10.6     | 0       | 245     | 1561.3                    | 0     | 94.03    | 0       | 2173.4  |
| 4-6-76   | 1.149          | 3.4                   | 158     |       | 4.7      | 0       | 225     | 1515.0                    | 0     | 45.06    | 0       | 2157.4  |
| 5-12-76  | 0.430          | 3.2                   | 160     | 0     | 5.7      | 1.0     | 138     | 574.1                     | 0     | 20.45    | 3.59    | 495.2   |
| 6-15-76  | 0.641          | 3.2                   | 160     | 0     | 5.7      | 1.0     | 198     | 859.9                     | 0     | 30.49    | 5.35    | 1059.2  |
| Average  | 0.601          | 3.1                   | 212.3   | 0     | 10.61    | 0.44    | 348     | 1039.3                    | 0     | 53.59    | 1.93    | 1733.6  |

Sta. B1-22

Location A.M.D. Source - Mine Drift, "B" Vein, Mitchell Mine

Elevation 1673

| Date     | Flow<br>M.G.D. | Water Analysis - mg/l |         |       |          |         |         | Daily Discharge - lbs/day |       |          |         |         |
|----------|----------------|-----------------------|---------|-------|----------|---------|---------|---------------------------|-------|----------|---------|---------|
|          |                | pH                    | Acidity | Alky. | Total Fe | Ferrous | Sulfate | Acidity                   | Alky. | Total Fe | Ferrous | Sulfate |
| 7- 1-75  | 0.049          | 3.0                   | 190     | 0     | 4.45     | -       | 186     | 78                        | 0     | 1.82     | -       | 76      |
| 8- 5-75  | 0.102          | 3.0                   | 184     | 0     | 6.35     | -       | 154     | 157                       | 0     | 5.41     | -       | 131     |
| 9-16-75  | 0.029          | 3.0                   | 194     | 0     | 6.8      | 0.38    | 342     | 47                        | 0     | 0.40     | 0.09    | 83      |
| 10- 7-75 | 0.154          | 3.0                   | 472     | 0     | 6.94     | 0.4     | 750     | 606.6                     | 0     | 8.92     | 0.51    | 963.9   |
| 11- 4-75 | 0.094          | 3.5                   | 136     | 0     | 4.7      | 0.07    | 475     | 106.9                     | 0     | 3.69     | 0.06    | 373.4   |
| 12- 2-75 | 0.016          | 2.9                   | 148     | 0     | 5.2      | 0.2     | 225     | 130.9                     | 0     | 4.60     | 0.18    | 199.0   |
| 1- 6-76  | 0.196          | 3.1                   | 160     | 0     | 3.9      | 0.1     | 205     | 261.2                     | 0     | 6.37     | 0.16    | 334.6   |
| 2-11-76  | 0.119          | 3.4                   | 130     | 0     | 3.5      | 0       | 275     | 129.1                     | 0     | 3.48     | 0       | 273.1   |
| 3- 2-76  | 0.335          | 3.1                   | 112     | 0     | 4.0      | 0       | 175     | 113.1                     | 0     | 11.18    | 0       | 489.2   |
| 4- 6-76  | 0.514          | 3.2                   | 110     | 0     | 3.3      | 0       | 180     | 471.8                     | 0     | 14.15    | 0       | 772.1   |
| 5-12-76  | 0.101          | 3.2                   | 126     | 0     | 4.8      | 0.2     | 165     | 106.2                     | 0     | 4.05     | 0.17    | 139.1   |
| 6-15-76  | 0.148          | 2.8                   | 152     | 0     | 3.2      | 0.3     | 205     | 187.7                     | 0     | 3.95     | 0.37    | 253.2   |
| Average  | 0.162          | 3.1                   | 176.2   | 0     | 4.76     | 0.17    | 301     | 199.6                     | 0     | 5.67     | 0.15    | 340.6   |



Sta. B1-23

Location A.M.D. Source - Mine Drift, "B" Vein, Mitchell Mine

Elevation 1675

| Date     | Flow M.G.D. | Water Analysis - mg/l |         |       |          |         |         | Daily Discharge - lbs/day |       |          |         |         |
|----------|-------------|-----------------------|---------|-------|----------|---------|---------|---------------------------|-------|----------|---------|---------|
|          |             | pH                    | Acidity | Alky. | Total Fe | Ferrous | Sulfate | Acidity                   | Alky. | Total Fe | Ferrous | Sulfate |
| 7- 1-75  | 0.018       | 3.0                   | 200     | 0     | 3.14     | -       | 190     | 29                        | 0     | 0.46     | -       | 28      |
| 8- 5-75  | 0.012       | 3.0                   | 160     | 0     | 3.96     | -       | 132     | 16                        | 0     | 0.40     | -       | 13      |
| 9-16-75  | 0.011       | 3.0                   | 222     | 0     | 7.5      | 0.35    | 333     | 20                        | 0     | 0.69     | 0.03    | 31      |
| 10- 7-75 | 0.027       | 2.9                   | 232     | 0     | 15.4     | 1.25    | 700     | 52.3                      | 0     | 3.47     | 0.28    | 157.7   |
| 11- 4-75 | 0.038       | 3.4                   | 172     | 0     | 5.1      | 0.10    | 750     | 53.9                      | 0     | 1.60     | 0.03    | 235.3   |
| 12- 2-75 | 0.018       | 2.9                   | 184     | 0     | 4.2      | 0.20    | 275     | 27.6                      | 0     | 0.63     | 0.03    | 41.3    |
| 1- 6-76  | 0.024       | 3.0                   | 160     | 0     | 2.9      | 0.20    | 235     | 31.6                      | 0     | 0.57     | 0.04    | 46.5    |
| 2-11-76  | 0.016       | 3.4                   | 142     | 0     | 2.8      | 0       | 350     | 19.0                      | 0     | 0.37     | 0       | 46.7    |
| 3- 2-76  | 0.027       | 3.1                   | 126     | 0     | 3.9      | 0       | 240     | 28.4                      | 0     | 0.88     | 0       | 54.0    |
| 4- 6-76  | 0.050       | 3.1                   | 82      | 0     | 2.0      | 0.25    | 180     | 34.2                      | 0     | 0.83     | 0.10    | 75.1    |
| 5-12-76  | 0.015       | 3.2                   | 160     | 0     | 2.6      | 0.15    | 160     | 20.0                      | 0     | 0.33     | 0.02    | 20.0    |
| 6-15-76  | 0.014       | 2.7                   | 154     | 0     | 2.6      | 1.00    | 165     | 18.0                      | 0     | 0.30     | 0.12    | 19.3    |
| Average  | 0.023       | 3.1                   | 166     | 0     | 4.68     | 0.35    | 309     | 29.2                      | 0     | 0.88     | 0.06    | 64.0    |

Sta. B1-24

Location A.M.D. Source - Mine Drift, "B" Vein, Percy Cope Mine

Elevation 1702

| Date     | Flow M.G.D. | Water Analysis - mg/l |         |       |          |         |         | Daily Discharge - lbs/day |       |          |         |         |
|----------|-------------|-----------------------|---------|-------|----------|---------|---------|---------------------------|-------|----------|---------|---------|
|          |             | pH                    | Acidity | Alky. | Total Fe | Ferrous | Sulfate | Acidity                   | Alky. | Total Fe | Ferrous | Sulfate |
| 7- 1-75  | 0.019       | 3.8                   | 460     | 0     | 0.76     | -       | 24      | 73                        | 0     | 0.12     | -       | 4       |
| 8- 5-75  | 0.022       | 3.7                   | 22      | 0     | 1.9      | -       | 24      | 4                         | 0     | 0.35     | -       | 4       |
| 9-16-75  | 0.012       | 3.7                   | 28      | 0     | 2.5      | 1.25    | 30      | 3                         | 0     | 0.25     | 0.13    | 3       |
| 10- 7-75 | 0.005       | 3.5                   | 20      | 0     | 2.2      | 1.55    | 180     | 0.8                       | 0     | 0.09     | 0.06    | 7.5     |
| 11- 4-75 | 0.013       | 3.9                   | 28      | 0     | 2.4      | 1.7     | 55      | 2.99                      | 0     | 0.26     | 0.18    | 5.9     |
| 12- 6-75 | 0.018       | 3.9                   | 32      | 0     | 2.4      | 1.5     | 162     | 4.81                      | 0     | 0.36     | 0.23    | 24.3    |
| 1- 6-76  | 0.029       | 3.7                   | 24      | 0     | 2.3      | 1.6     | 110     | 5.81                      | 0     | 0.56     | 0.39    | 26.6    |
| 2-13-76  | 0.017       | 4.0                   | 18      | 4     | 2.4      | 1.6     | 100     | 2.55                      | 0.57  | 0.34     | 0.22    | 14.2    |
| 3- 2-76  | 0.022       | 3.8                   | 24      | 0     | 2.4      | 0.85    | 95      | 4.41                      | 0     | 0.44     | 0.16    | 17.4    |
| 4- 6-76  | 0.020       | 3.7                   | 24      | 0     | 1.9      | 1.2     | 100     | 4.01                      | 0     | 0.32     | 0.20    | 16.7    |
| 5-11-76  | 0.014       | 3.9                   | 10      | 0     | 1.2      | 0.8     | 75      | 1.17                      | 0     | 0.14     | 0.09    | 8.8     |
| 6-15-76  | 0.022       | 3.5                   | 28      | 0     | 2.0      | 1.3     | 83      | 5.14                      | 0     | 0.37     | 0.24    | 15.2    |
| Average  | 0.018       | 3.8                   | 59.8    | 0.3   | 2.03     | 1.34    | 86      | 9.3                       | 0.05  | 0.30     | 0.19    | 12.3    |

Sta. B1-25

Location - Surface Water and Possible A.M.D. Seeping through Mine Spoil-Cope Mine

Elevation 1715

| Date     | Flow M.G.D. | Water Analysis - mg/l |         |       |          |         |         | Daily Discharge - lbs/day |       |          |         |         |
|----------|-------------|-----------------------|---------|-------|----------|---------|---------|---------------------------|-------|----------|---------|---------|
|          |             | pH                    | Acidity | Alky. | Total Fe | Ferrous | Sulfate | Acidity                   | Alky. | Total Fe | Ferrous | Sulfate |
| 7- 1-75  | 0.029       | 4.7                   | 310     | 4     | 0.22     | -       | 8       | 74                        | 1     | 0.05     | -       | 2       |
| 8- 5-75  | 0.012       | 4.6                   | 8       | 6     | 3.10     | -       | 30      | 1                         | 1     | 0.31     | -       | 3       |
| 9-16-75  | 0.023       | 4.4                   | 16      | 4     | 2.40     | 0.50    | 14      | 3                         | 1     | 0.46     | 0.10    | 3       |
| 10- 7-75 | 0.053       | 4.2                   | 8       | 16    | 0.47     | 0.40    | 35      | 3.5                       | 7.1   | 0.21     | 0.18    | 15.5    |
| 11- 4-75 | 0.032       | 4.3                   | 16      | 7     | 0.80     | 0.55    | 35      | 4.3                       | 1.9   | 0.22     | 0.15    | 9.5     |
| 12- 6-75 | 0.021       | 4.6                   | 8       | 32    | 0.40     | 0.40    | 40      | 1.4                       | 5.6   | 0.07     | 0.07    | 7.0     |
| 1- 6-76  | 0.076       | 4.6                   | 12      | 6     | 0.40     | 0.20    | 45      | 7.6                       | 3.8   | 0.25     | 0.12    | 28.5    |
| 2-13-76  | 0.084       | 4.2                   | 12      | 10    | 0.30     | 0.30    | 102     | 8.4                       | 7.0   | 0.21     | 0.21    | 71.5    |
| 3- 2-76  | 0.082       | 4.3                   | 8       | 4     | 0.30     | 0.20    | 55      | 5.5                       | 2.7   | 0.21     | 0.14    | 37.6    |
| 4- 6-76  | 0.084       | 4.7                   | 6       | 10    | 0.40     | 0.30    | 83      | 4.2                       | 7.0   | 0.28     | 0.21    | 58.2    |
| 5-11-76  | 0.017       | 4.9                   | 4       | 8     | 0.30     | 0.20    | 88      | 0.6                       | 1.1   | 0.04     | 0.03    | 12.5    |
| 6-15-76  | 0.353       | 3.9                   | 28      | 0     | 0.15     | 0.15    | 95      | 82.5                      | 0     | 0.44     | 0.44    | 279.6   |
| Average  | 0.072       | 4.5                   | 36.3    | 9     | 0.77     | 0.32    | 52      | 16.3                      | 3.3   | 0.23     | 0.14    | 44.0    |

| Date     | Flow<br>M.G.D. | Water Analysis - mg/l |         |       |          |         |         | Daily Discharge - lbs/day |       |          |         |         |
|----------|----------------|-----------------------|---------|-------|----------|---------|---------|---------------------------|-------|----------|---------|---------|
|          |                | pH                    | Acidity | Alky. | Total Fe | Ferrous | Sulfate | Acidity                   | Alky. | Total Fe | Ferrous | Sulfate |
| 7- 1-75  | 0.022          | 3.9                   | 60      | 0     | 0.16     | -       | 58      | 11                        | 0     | 0.03     | -       | 11      |
| 8- 5-75  | 0.012          | 3.9                   | 20      | 0     | 0.3      | -       | 86      | 2                         | 0     | 0.03     | -       | 9       |
| 9-16-75  | 0.067          | 4.0                   | 24      | 0     | 0.3      | 0       | 42      | 13                        | 0     | 0.17     | 0       | 24      |
| 10- 7-75 | 0.045          | 3.5                   | 40      | 0     | 0.3      | 0.30    | 105     | 15                        | 0     | 0.11     | 0.11    | 39.4    |
| 11- 4-75 | 0.023          | 3.7                   | 30      | 0     | 0.2      | 0.10    | 75      | 5.8                       | 0     | 0.04     | 0.02    | 14.4    |
| 12- 2-75 | 0.025          | 3.5                   | 32      | 0     | 0.1      | 0.07    | 80      | 6.7                       | 0     | 0.02     | 0.01    | 16.7    |
| 1- 6-76  | 0.039          | 3.8                   | 46      | 0     | 0.2      | 0       | 188     | 14.8                      | 0     | 0.06     | 0       | 60.4    |
| 2-11-76  | 0.068          | 4.0                   | 30      | 0     | 0.1      | 0       | 100     | 17.0                      | 0     | 0.06     | 0       | 56.7    |
| 3- 2-76  | 0.120          | 3.9                   | 38      | 0     | 0.2      | 0       | 110     | 38.0                      | 0     | 0.20     | 0       | 110.2   |
| 4- 6-76  | 0.111          | 4.1                   | 36      | 4     | 0.08     | 0       | 140     | 33.3                      | 3.7   | 0.07     | 0       | 129.7   |
| 5-12-76  | 0.019          | 3.9                   | 60      | 0     | 0.08     | 0       | 70      | 9.5                       | 0     | 0.01     | 0       | 11.1    |
| 6-15-76  | 0.120          | 3.5                   | 48      | 0     | 0.15     | 0.15    | 95      | 48.1                      | 0     | 0.15     | 0.15    | 95.1    |
| Average  | 0.056          | 3.8                   | 39      | 0.3   | 0.18     | 0.06    | 96      | 17.9                      | 0.3   | 0.08     | 0.03    | 48.1    |

Sta. C1-1 Location Mouth of Babb Creek at Blackwell Elevation 855

| Date     | Flow M.G.D. | Water Analysis - mg/1 |         |       |          |         |         | Daily Discharge - lbs/day |         |          |         |         |
|----------|-------------|-----------------------|---------|-------|----------|---------|---------|---------------------------|---------|----------|---------|---------|
|          |             | pH                    | Acidity | Alky. | Total Fe | Ferrous | Sulfate | Acidity                   | Alky.   | Total Fe | Ferrous | Sulfate |
| 7- 8-75  | 44.072      | 5.3                   | 6       | 6     | 0.04     | -       | 60      | 2207                      | 2207    | 14.7     | -       | 22067   |
| 8- 5-75  | 17.030      | 5.0                   | 20      | 6     | 0.15     | -       | 78      | 2842                      | 853     | 21.3     | -       | 11085   |
| 9-15-75  | 96.818      | 6.2                   | 4       | 12    | 1.70     | 0.38    | 80      | 3232                      | 9696    | 1374     | 307     | 33934   |
| 10- 7-75 | 85.960      | 5.3                   | 16      | 12    | 0.22     | 0.05    | 66      | 11477                     | 8608    | 157.82   | 35.87   | 47345   |
| 11- 7-75 | 51.284      | 5.4                   | 8       | 15    | 0.10     | 0       | 100     | 3423                      | 6419    | 42.80    | 0       | 42797   |
| 12- 2-75 | 104.590     | 6.5                   | 0       | 8     | 0.20     | 0       | 57      | 0                         | 6982    | 174.56   | 0       | 49750   |
| 1- 5-76  | 80.026 *    | 5.8                   | 4       | 16    | 0.20     | 0       | 48      | 2671                      | 10685   | 133.57   | 0       | 32055   |
| 2-13-76  | 103.580 *   | 7.7                   | 8       | 20    | 0.30     | 0.30    | 60      | 6915                      | 17287   | 259.32   | 259.32  | 51863   |
| 3- 5-76  | 525.206 *   | 6.7                   | 10      | 28    | 0.10     | 0       | 215     | 43829                     | 122722  | 438.29   | 0       | 942329  |
| 4- 5-76  | 192.289     | 5.7                   | 8       | 10    | 0.30     | 0.20    | 44      | 12837                     | 16047   | 481.40   | 320.74  | 70606   |
| 5-13-76  | 58.371      | 5.9                   | 6       | 12    | 0.20     | 0.10    | 58      | 2922                      | 5845    | 97.40    | 48.71   | 28252   |
| 6-28-76  | 127.878     | 6.9                   | 30      | 30    | 0.25     | 0.25    | 28      | 32014                     | 32015   | 266.79   | 266.79  | 29880   |
| Average  | 123.925     | 6.0                   | 10      | 14.6  | 0.31     | 0.13    | 75      | 10364                     | 19951.6 | 288.50   | 123.86  | 113497  |

Sta. C1-1a Location Pine Creek Upstream above Confluence with Babb Creek Elevation 860

| Date M.G.D. | Flow       | Water Analysis - mg/1 |         |       |          |         |         | Daily Discharge - lbs/day |        |          |         |         |
|-------------|------------|-----------------------|---------|-------|----------|---------|---------|---------------------------|--------|----------|---------|---------|
|             |            | pH                    | Acidity | Alky. | Total Fe | Ferrous | Sulfate | Acidity                   | Alky.  | Total Fe | Ferrous | Sulfate |
| 7- 2-75     | 193.320    | 8.9                   | 0       | 32    | 0.26     | -       | 12      | 0                         | 51625  | 419      | -       | 19359   |
| 8- 5-75     | 98.518     | 8.9                   | 0       | 36    | 0.18     | -       | 32      | 0                         | 29517  | 148      | -       | 26309   |
| 9-18-75     | 315.015    | 7.5                   | 0       | 37    | 0.80     | 0.13    | 42      | 0                         | 97267  | 2103     | 342     | 110412  |
| 10- 9-75    | 259.91     | 6.1                   | 0       | 27    | 0.21     | 0.05    | 26      | 0                         | 58562  | 455.5    | 108.45  | 56393   |
| 11- 7-75    | 190.262    | 8.7                   | 9       | 22    | 0.03     | 0       | 110     | 0                         | 34930  | 47.63    | 0       | 174654  |
| 12- 2-75    | 327.296    | 6.6                   | 0       | 20    | 0.15     | 0       | 30      | 0                         | 54626  | 409.70   | 0       | 81940   |
| 1- 5-76     | 261.617 *  | 6.4                   | 2       | 30    | 0.03     | 0       | 30      | 4366                      | 65497  | 65.50    | 0       | 65497   |
| 2-13-76     | 338.620 *  | 8.0                   | 2       | 32    | 0.20     | 0       | 60      | 5651                      | 90426  | 565.17   | 0       | 169550  |
| 3- 5-76     | 1716.975 * | 7.0                   | 10      | 26    | 0.20     | 0.05    | 95      | 143284                    | 372539 | 2865.70  | 716.42  | 1361201 |
| 4- 5-76     | 628.473 *  | 6.2                   | 6       | 20    | 0.10     | 0.05    | 48      | 31468                     | 104894 | 524.47   | 262.24  | 251746  |
| 5-13-76     | 238.008    | 7.5                   | 2       | 28    | 0.07     | 0       | 38      | 3972                      | 55614  | 139.04   | 0       | 75476   |
| 6-28-76     | 471.873    | 7.0                   | 18      | 38    | 0.60     | 0.60    | 20      | 70881                     | 149638 | 2362.71  | 2362.71 | 78757   |
| Average     | 419.991    | 7.4                   | 3.3     | 29.0  | 0.24     | 0.09    | 45      | 21635                     | 97101  | 842.12   | 379.18  | 205941  |

Sta. C1-1c Location Pine Creek - Downstream Below Confluence with Babb Creek Elevation 845

| Date     | Flow M.G.D. | Water Analysis - mg/1 |         |       |          |         |         | Daily Discharge - lbs/day |         |          |         |         |
|----------|-------------|-----------------------|---------|-------|----------|---------|---------|---------------------------|---------|----------|---------|---------|
|          |             | pH                    | Acidity | Alky. | Total Fe | Ferrous | Sulfate | Acidity                   | Alky.   | Total Fe | Ferrous | Sulfate |
| 7- 3-75  | 191.640     | 7.8                   | 0       | 24    | 0.19     | -       | 27      | 0                         | 38382   | 304      | -       | 43180   |
| 8- 5-75  | 190.111     | 8.5                   | 0       | 27    | 0.13     | -       | 28      | 0                         | 24585   | 118      | -       | 25495   |
| 9-15-75  | 408.647     | 7.5                   | 0       | 33    | 0.20     | 0.19    | 36      | 0                         | 112537  | 682      | 648     | 122768  |
| 10- 9-75 | 345.87      | 5.5                   | 0       | 32    | 0.16     | 0.05    | 28      | 0                         | 92362   | 461.81   | 144.32  | 80817   |
| 11- 5-75 | 241.725     | 8.5                   | 0       | 37    | 0.10     | 0       | 110     | 0                         | 74637   | 201.72   | 0       | 221895  |
| 12- 2-75 | 431.886     | 6.6                   | 0       | 30    | 0.10     | 0       | 45.5    | 0                         | 108124  | 360.42   | 0       | 163989  |
| 1- 5-76  | 340.616 *   | 6.5                   | 2       | 34    | 0.01     | 0       | 35      | 5685                      | 96644   | 28.42    | 0       | 99487   |
| 2-13-76  | 440.870 *   | 7.9                   | 4       | 34    | 0.10     | 0       | 90      | 14716                     | 125090  | 367.91   | 0       | 331121  |
| 3- 5-76  | 2235.437 *  | 7.0                   | 8       | 26    | 0.20     | 0       | 70      | 149241                    | 485032  | 3731.0   | 0       | 1305855 |
| 4- 5-76  | 818.247 *   | 6.1                   | 2       | 22    | 0.05     | 0       | 35      | 13656                     | 150224  | 341.42   | 0       | 238994  |
| 5-13-76  | 399.877 *   | 7.5                   | 2       | 26    | 0.10     | 0.10    | 25      | 5171                      | 67235   | 258.6    | 258.6   | 64649   |
| 6-28-76  | 578.631     | 7.1                   | 22      | 38    | 0.40     | 0.40    | 10      | 106232                    | 1834932 | 1931.51  | 1931.51 | 48287   |
| Average  | 537.714     | 7.2                   | 3.3     | 30.3  | 0.15     | 0.07    | 45      | 24558                     | 129862  | 732.23   | 298.24  | 228878  |

| Date     | Flow<br>M.G.D. | Water Analysis - mg/l |         |       |          |         |         | Daily Discharge - lbs/day |       |          |         |         |
|----------|----------------|-----------------------|---------|-------|----------|---------|---------|---------------------------|-------|----------|---------|---------|
|          |                | pH                    | Acidity | Alky. | Total Fe | Ferrous | Sulfate | Acidity                   | Alky. | Total Fe | Ferrous | Sulfate |
| 7- 7-75  | 7.605          | 4.9                   | 12      | 6     | 0.16     | -       | 36      | 762                       | 381   | 10.15    | -       | 2285    |
| 8- 4-75  | 17.243         | 4.9                   | 10      | 6     | 0.11     | -       | 28      | 1439                      | 863   | 15.8     | -       | 4029    |
| 9-17-75  | 38.824         | 5.0                   | 8       | 10    | 0.44     | 0       | 42      | 2592                      | 3240  | 142.6    | 0       | 13608   |
| 10- 8-75 | 48.770         | 4.6                   | 72      | 12    | 0.18     | 0.15    | 100     | 29304                     | 4883  | 73.26    | 61.05   | 40699   |
| 11- 5-75 | 35.531         | 5.2                   | 8       | 7     | 0.2      | 0.10    | 130     | 2372                      | 2075  | 59.30    | 29.65   | 38546   |
| 12- 8-75 | 91.895**       | 4.8                   | 4       | 4     | 0.1      | 0       | 100     | 3067                      | 3067  | 76.68    | 0       | 76687   |
| 1-6-76   | 42.099         | 6.2                   | 2       | 8     | 0.1      | 0       | 48      | 702                       | 2810  | 35.13    | 0       | 16863   |
| 2-13-76  | 54.839         | 7.4                   | 12      | 20    | 0.29     | 0.07    | 70      | 5491                      | 9152  | 91.53    | 32.03   | 32034   |
| 3- 5-76  | 296.275        | 5.6                   | 8       | 12    | 0.2      | 0       | 100     | 19779                     | 29669 | 494.5    | 0       | 247246  |
| 4- 6-76  | 60.939         | 5.0                   | 8       | 8     | 0.1      | 0.10    | 41      | 4068                      | 4064  | 50.85    | 50.85   | 20850   |
| 5-13-76  | 29.588         | 7.4                   | 2       | 10    | 0.06     | 0       | 50      | 493                       | 2469  | 14.81    | 0       | 12345   |
| 6-16-76  | 77.102         | 6.1                   | 22      | 12    | 0.2      | 0.05    | 70      | 14155                     | 7721  | 128.7    | 32.17   | 45040   |
| Average  | 66.726         | 5.6                   | 14.0    | 9.6   | 0.17     | 0.05    | 68      | 7018                      | 5866  | 99.44    | 20.58   | 45853   |

Sta. C1-7a Location Babb Creek - 800 ± ft. Upstream from Mouth of Rock Run Elevation 1165

| Date     | Flow<br>M.G.D. | Water Analysis - mg/l |         |       |          |         |         | Daily Discharge - lbs/day |       |          |         |         |
|----------|----------------|-----------------------|---------|-------|----------|---------|---------|---------------------------|-------|----------|---------|---------|
|          |                | pH                    | Acidity | Alky. | Total Fe | Ferrous | Sulfate | Acidity                   | Alky. | Total Fe | Ferrous | Sulfate |
| 7- 7-75  | 26.732         | 4.6                   | 4       | 4     | 0.24     | -       | 16      | 893                       | 893   | 53.5     | -       | 3569    |
| 8- 4-75  | 11.075         | 4.4                   | 28      | 4     | 0.13     | -       | 26      | 2588                      | 370   | 12.0     | -       | 2403    |
| 9-17-75  | 17.593         | 4.9                   | 4       | 5     | 1.25     | 0       | 14      | 587                       | 734   | 183.5    | 0       | 2055    |
| 10- 8-75 | 28.150         | 4.5                   | 16      | 4     | 0.32     | 0.3     | 75      | 3758                      | 934   | 75.2     | 70.47   | 17618   |
| 11- 5-76 | 18.974         | 5.0                   | 32      | 7     | 0.2      | 0.15    | 130     | 5066                      | 1108  | 31.7     | 23.75   | 20584   |
| 12- 8-75 | 61.242**       | 4.6                   | 8       | 4     | 0.2      | 0.10    | 75      | 4088                      | 2044  | 102.2    | 51.11   | 38330   |
| 1- 8-76  | 22.127*        | 4.8                   | 12      | 6     | 0.2      | 0       | 65      | 2215                      | 1107  | 36.93    | 0       | 12002   |
| 2-13-76  | 27.227         | 6.9                   | 8       | 6     | 0.3      | 0.07    | 60      | 1817                      | 1363  | 68.16    | 15.9    | 13632   |
| 3- 5-76  | 153.574        | 5.2                   | 6       | 18    | 0.1      | 0       | 70      | 7689                      | 23068 | 128.16   | 0       | 89711   |
| 4- 6-76  | 44.666         | 4.7                   | 16      | 8     | 0.1      | 0.05    | 35      | 5963                      | 2982  | 37.27    | 18.64   | 13046   |
| 5-13-76  | 22.557         | 5.0                   | 4       | 8     | 0.1      | 0.1     | 41.2    | 753                       | 1505  | 18.82    | 18.82   | 7755    |
| 6-16-76  | 34.419         | 6.2                   | 22      | 6     | 0.2      | 0.1     | 50      | 6319                      | 1723  | 57.45    | 57.45   | 14361   |
| Average  | 39.111         | 5.1                   | 13.3    | 6.7   | 0.28     | 0.09    | 55      | 3478                      | 3153  | 67.07    | 22.74   | 19589   |

Sta. C1-14 Location A.M.D. Source - Main Entry with Air Seal, "B" Vein, Bear Run Mine Elevation 1727

| Date     | Flow<br>M.G.D. | Water Analysis - mg/l |         |       |          |         |         | Daily Discharge - lbs/day |       |          |         |         |
|----------|----------------|-----------------------|---------|-------|----------|---------|---------|---------------------------|-------|----------|---------|---------|
|          |                | pH                    | Acidity | Alky. | Total Fe | Ferrous | Sulfate | Acidity                   | Alky. | Total Fe | Ferrous | Sulfate |
| 7- 7-75  | 0.718          | 2.9                   | 190     | 0     | 11.8     | -       | 172     | 1138                      | 0     | 70.70    | -       | 1030    |
| 8- 4-75  | 0.516          | 2.9                   | 400     | 0     | 14.3     | -       | 110     | 1722                      | 0     | 61.58    | -       | 474     |
| 9-18-75  | 0.215          | 3.0                   | 230     | 0     | 23.5     | 1.7     | 180     | 412                       | 0     | 42.16    | 3.05    | 323     |
| 10- 9-75 | 0.621          | 3.1                   | 376     | 0     | 22.5     | 0.7     | 600     | 1948.6                    | 0     | 116.60   | 3.63    | 3109.4  |
| 11- 6-75 | 0.696          | 3.1                   | 256     | 0     | 17.5     | 0.5     | 800     | 1487.8                    | 0     | 101.70   | 2.91    | 4644.3  |
| 12- 7-75 | 0.256          | 3.3                   | 192     | 0     | 13.5     | 13.0    | 500     | 410.8                     | 0     | 28.88    | 27.82   | 1069.8  |
| 1- 8-76  | 0.813          | 2.9                   | 184     | 0     | 12.5     | 0.8     | 263     | 1248.4                    | 0     | 84.81    | 5.43    | 1784.4  |
| 2-14-76  | 0.595          | 3.3                   | 210     | 0     | 12.4     | 0       | 230     | 1042.7                    | 0     | 61.57    | 0       | 1142.0  |
| 3- 4-76  | 0.844          | 3.0                   | 190     | 0     | 20.0     | 0       | 205     | 1338.2                    | 0     | 140.87   | 0       | 1443.9  |
| 4- 6-76  | 0.799          | 3.3                   | 170     | 0     | 8.1      | 0       | 255     | 1135.5                    | 0     | 54.01    | 0       | 1700.3  |
| 5-13-76  | 0.500          | 3.2                   | 152     | 0     | 9.8      | 1.0     | 173     | 634.2                     | 0     | 40.89    | 4.17    | 721.8   |
| 6-17-76  | 0.608          | 2.6                   | 216     | 0     | 9.3      | 1.1     | 325     | 1096.0                    | 0     | 47.19    | 5.58    | 1649.0  |
| Average  | 0.598          | 3.1                   | 230.5   | 0     | 14.6     | 1.88    | 318     | 1134.5                    | 0     | 70.91    | 5.26    | 1591.0  |

Sta. C1-15 Location A.M.D. Source - Mine Drift with Air Seal, "B" Vein, Bear Run Mine Elevation 1726

| Date     | Flow M.G.D. | Water Analysis - mg/l |         |       |          |         |         | Daily Discharge - lbs/day |       |          |         |         |
|----------|-------------|-----------------------|---------|-------|----------|---------|---------|---------------------------|-------|----------|---------|---------|
|          |             | pH                    | Acidity | Alky. | Total Fe | Ferrous | Sulfate | Acidity                   | Alky. | Total Fe | Ferrous | Sulfate |
| 7- 7-75  | 0.061       | 3.0                   | 138     | 0     | 6.65     | -       | 146     | 70                        | 0     | 3.37     | -       | 74      |
| 8- 4-75  | 0.003       | 3.0                   | 260     | 0     | 87.5     | -       | 506     | 6                         | 0     | 2.19     | -       | 13      |
| 9-18-75  | 0.006       | 3.9                   | 246     | 0     | 140      | 107.5   | 295     | 12                        | 0     | 7.01     | 5.38    | 15      |
| 10-9-75  | 0.008       | 3.5                   | 184     | 0     | 71.75    | 60      | 550     | 12.3                      | 0     | 4.77     | 4.01    | 36.7    |
| 11- 6-75 | 0.009       | 3.4                   | 128     | 0     | 72.0     | 57.5    | 700     | 9.6                       | 0     | 5.41     | 4.32    | 52.6    |
| 12- 7-75 | 0.006       | 3.2                   | 180     | 0     | 62.0     | 62.0    | 450     | 8.4                       | 0     | 2.90     | 2.90    | 21.1    |
| 1- 8-76  | 0.012       | 3.5                   | 180     | 0     | 75.0     | 55.0    | 300     | 18.0                      | 0     | 7.51     | 5.51    | 30.0    |
| 2-14-76  | 0.003       | 3.2                   | 204     | 0     | 78.7     | 68.7    | 270     | 5.1                       | 0     | 1.97     | 1.72    | 6.8     |
| 3- 4-76  | 0.011       | 3.2                   | 170     | 0     | 83.0     | 46.3    | 215     | 15.6                      | 0     | 7.62     | 4.25    | 19.7    |
| 4- 6-76  | 0.007       | 3.3                   | 160     | 0     | 62.0     | 53.75   | 270     | 9.3                       | 0     | 3.62     | 3.14    | 15.7    |
| 5-13-76  | 0.006       | 3.8                   | 206     | 0     | 90.2     | 73.0    | 637     | 10.3                      | 0     | 4.51     | 3.66    | 31.9    |
| 6-17-76  | 0.009       | 2.7                   | 248     | 0     | 105.0    | 70.6    | 375     | 18.6                      | 0     | 7.89     | 5.30    | 28.2    |
| Average  | 0.012       | 3.3                   | 192     | 0     | 77.8     | 65.44   | 393     | 16.3                      | 0     | 4.90     | 8.04    | 28.7    |

Sta. C1-16 Location A.M.D. Source - Mine Drift with Air Seal, "B" Vein, Bear Run Mine Elevation 1749

| Date     | Flow    | Water Analysis - mg/l |         |       |          |         |         | Daily Discharge - lbs/day |       |          |         |         |
|----------|---------|-----------------------|---------|-------|----------|---------|---------|---------------------------|-------|----------|---------|---------|
|          |         | pH                    | Acidity | Alky. | Total Fe | Ferrous | Sulfate | Acidity                   | Alky. | Total Fe | Ferrous | Sulfate |
| 7- 7-75  | 0.061   | 3.3                   | 48      | 0     | 82.50    | -       | 286     | 24                        | 0     | 41.8     | -       | 145     |
| 8- 4-75  | DRY     | NO                    | SAMPLE  | TAKEN |          |         |         |                           |       |          |         |         |
| 9-18-75  | DRY     | NO                    | SAMPLE  | TAKEN |          |         |         |                           |       |          |         |         |
| 10- 9-75 | 0.236   | 3.1                   | 312     | 0     | 24       | 0.3     | 240     | 614.5                     | 0     | 47.27    | 0.59    | 472.7   |
| 11- 6-75 | 0.058   | 3.1                   | 80      | 0     | 6.6      | 0.3     | 900     | 38.7                      | 0     | 3.19     | 0.14    | 435.6   |
| 12- 7-75 | 0.0005  | 3.3                   | 120     | 0     | 5.2      | 0.3     | 550     | 0.5                       | 0     | 0.02     | 0.001   | 2.2     |
| 1- 8-76  | 0.067   | 3.1                   | 104     | 0     | 3.7      | 0.15    | 165     | 58.1                      | 0     | 2.07     | 0.08    | 92.3    |
| 2-14-76  | 0.028   | 3.5                   | 114     | 0     | 4.0      | 0       | 160     | 26.6                      | 0     | 0.93     | 0       | 37.4    |
| 3- 4-76  | 0.732   | 3.0                   | 186     | 0     | 23.7     | 0       | 205     | 1136.2                    | 0     | 144.78   | 0       | 1252.3  |
| 4- 6-76  | 0.332   | 3.3                   | 152     | 0     | 5.3      | 0       | 205     | 421.1                     | 0     | 14.68    | 0       | 567.9   |
| 5-13-76  | No Flow | 3.5                   | 36      | 0     | 1.1      | 0.42    | 83      | 0                         | 0     | 0        | 0       | 0       |
| 6-17-76  | 0.026   | 2.8                   | 108     | 0     | 4.3      | 0.40    | 193     | 23.4                      | 0     | 0.93     | 0.09    | 41.9    |
| Average  | 0.129   | 3.2                   | 126     | 0     | 16.04    | 0.16    | 299     | 194.8                     | 0     | 22.07    | 0.18    | 253.9   |

Sta. C1-17 Location A.M.D. Source - "Brown's Drift, "B" Vein, Bear Run Mine Elevation 1814

| Date     | Flow M.G.D. | Water Analysis - mg/l |         |       |          |         |         | Daily Discharge - lbs/day |       |          |         |         |
|----------|-------------|-----------------------|---------|-------|----------|---------|---------|---------------------------|-------|----------|---------|---------|
|          |             | pH                    | Acidity | Alky. | Total Fe | Ferrous | Sulfate | Acidity                   | Alky. | Total Fe | Ferrous | Sulfate |
| 7- 7-75  | 0.019       | 3.0                   | 690     | 0     | 2.74     | -       | 124     | 110                       | 0     | 0.44     | -       | 20      |
| 8- 4-75  | 0.004       | 3.0                   | 166     | 0     | 5.65     | -       | 186     | 5                         | 0     | 0.19     | -       | 6       |
| 9-18-75  | 0.017       | 3.3                   | 154     | 0     | 6.5      | 1.7     | 150     | 22                        | 0     | 0.92     | 0.24    | 21      |
| 10- 9-75 | 0.024       | 3.1                   | 112     | 0     | 3.12     | 0.55    | 180     | 22.4                      | 0     | 0.62     | 0.11    | 33.1    |
| 11- 6-75 | 0.022       | 3.1                   | 128     | 0     | 4.0      | 0.30    | 650     | 5.1                       | 0     | 0.73     | 0.05    | 119.3   |
| 12- 7-75 | 0.018       | 3.3                   | 140     | 0     | 3.9      | 0.40    | 450     | 21.3                      | 0     | 0.59     | 0.06    | 68.6    |
| 1- 8-76  | 0.031       | 3.3                   | 100     | 0     | 4.0      | 0.30    | 440     | 25.9                      | 0     | 1.03     | 0.08    | 113.8   |
| 2-14-76  | 0.017       | 3.5                   | 136     | 0     | 4.1      | 0       | 200     | 19.3                      | 0     | 0.58     | 0       | 28.4    |
| 3- 4-76  | 0.119       | 3.3                   | 104     | 0     | 3.2      | 0.40    | 140     | 103.3                     | 0     | 3.18     | 0.40    | 139.0   |
| 4- 6-76  | 0.115       | 3.4                   | 110     | 0     | 2.2      | 1.20    | 185     | 105.6                     | 0     | 2.11     | 1.15    | 177.5   |
| 5-13-76  | 0.024       | 3.2                   | 120     | 0     | 3.4      | 0.42    | 180     | 24.0                      | 0     | 0.68     | 0.08    | 36.1    |
| 6-16-76  | 0.019       | 2.8                   | 134     | 0     | 3.1      | 0.5     | 325     | 21.2                      | 0     | 0.49     | 0.08    | 51.5    |
| Average  | 0.036       | 3.2                   | 174.5   | 0     | 3.83     | 0.58    | 268     | 40.4                      | 0     | 0.96     | 0.23    | 67.9    |

Sta. C1-19 Location - Mouth of Rattlesnake Run

Elevation 1450

| Date     | Flow<br>M.G.D. | Water Analysis - mg/l |         |       |          |         |         | Daily Discharge - lbs/day |       |          |         |         |
|----------|----------------|-----------------------|---------|-------|----------|---------|---------|---------------------------|-------|----------|---------|---------|
|          |                | pH                    | Acidity | Alky. | Total Fe | Ferrous | Sulfate | Acidity                   | Alky. | Total Fe | Ferrous | Sulfate |
| 7- 7-75  | 1.015          | 4.5                   | 6       | 4     | 0.1      | -       | 14      | 51                        | 34    | 0.85     | -       | 119     |
| 8- 4-75  | 0.518          | 4.5                   | 8       | 4     | 0.23     | -       | 10      | 35                        | 17    | 0.99     | -       | 43      |
| 9-18-75  | 0.788          | 4.7                   | 16      | 4     | 0.44     | 0.06    | 14      | 105                       | 26    | 2.89     | 0.39    | 92      |
| 10- 8-75 | 1.415          | 5.1                   | 4       | 12    | 0.03     | 0       | 32.5    | 47.2                      | 141.7 | 0.35     | 0       | 383.8   |
| 11- 5-75 | 0.807          | 5.5                   | 8       | 22    | 0.1      | 0       | 65      | 53.9                      | 148.2 | 0.67     | 0       | 437.7   |
| 12- 8-75 | 0.967          | 5.5                   | 2       | 18    | 0.01     | 0       | 75      | 16.1                      | 145.2 | 0.08     | 0       | 605.2   |
| 1- 8-76  | 1.100          | 4.5                   | 6       | 4     | 0.1      | 0       | 100     | 55.2                      | 36.7  | 0.92     | 0       | 918.0   |
| 2-13-76  | 1.342 *        | 4.6                   | 14      | 16    | 0.07     | 0       | 60      | 156.8                     | 179.2 | 0.78     | 0       | 671.9   |
| 3- 4-76  | 6.898          | 4.8                   | 10      | 10    | 0.2      | 0.07    | 120     | 575.6                     | 575.6 | 11.51    | 0       | 6907.8  |
| 4- 7-76  | 1.781          | 4.6                   | 6       | 8     | 0.1      | 0.05    | 38      | 89.2                      | 118.9 | 1.49     | 0       | 564.8   |
| 5-13-76  | 1.160          | 4.5                   | 6       | 6     | 0.06     | 0       | 65      | 58.1                      | 58.1  | 0.58     | 0       | 629.2   |
| 6-17-76  | 2.844          | 4.5                   | 18      | 4     | 0.2      | 0.2     | 75      | 427.2                     | 94.9  | 4.75     | 4.75    | 1780.0  |
| Average  | 1.720          | 4.8                   | 8.7     | 9     | 0.14     | 0.04    | 56      | 139.2                     | 131   | 2.16     | 0.99    | 1096.0  |

Sta. C1-20 Location- Babb Creek Control - Below Bridge on Pa. L.R. 58038

Elevation 1685

| Date     | Flow<br>M.G.D. | Water Analysis - mg/l |         |       |          |         |         | Daily Discharge - lbs/day |        |          |         |         |
|----------|----------------|-----------------------|---------|-------|----------|---------|---------|---------------------------|--------|----------|---------|---------|
|          |                | pH                    | Acidity | Alky. | Total Fe | Ferrous | Sulfate | Acidity                   | Alky.  | Total Fe | Ferrous | Sulfate |
| 7-10-75  | 2.055          | 6.9                   | 0       | 54    | 0.64     | -       | 32      | 0                         | 926    | 11.0     | -       | 549     |
| 8- 4-75  | 1.178          | 7.6                   | 0       | 44    | 0.16     | -       | 18      | 0                         | 433    | 1.57     | -       | 177     |
| 9-18-75  | 5.455          | 7.4                   | 4       | 33    | 0.625    | 0.19    | 19      | 182                       | 1502   | 28.45    | 8.65    | 865     |
| 10- 8-75 | 3.323          | 6.4                   | 0       | 32    | 0.15     | 0.15    | 36.8    | 0                         | 887.4  | 4.16     | 4.16    | 1020.5  |
| 11- 5-75 | 2.584          | 6.6                   | 4       | 52    | 0.1      | 0.1     | 120     | 86.2                      | 1121.3 | 2.16     | 2.16    | 2587.7  |
| 12- 8-75 | 3.139          | 6.0                   | 0       | 36    | 0.1      | 0       | 45      | 0                         | 943.0  | 2.62     | 0       | 1178.8  |
| 1- 7-76  | 3.885          | 6.4                   | 2       | 34    | 0.1      | 0       | 38      | 64.8                      | 1102.3 | 3.24     | 0       | 1232.0  |
| 2-13-76  | 4.575*         | 7.9                   | 4       | 28    | 0.2      | 0.4     | 60      | 162.7                     | 1069.0 | 7.64     | 15.27   | 2290.7  |
| 3- 4-76  | 42.893         | 7.5                   | 4       | 20    | 0.4      | 0.07    | 75      | 1431.8                    | 7158.9 | 143.18   | 25.06   | 26846.2 |
| 4- 7-76  | 7.752          | 6.1                   | 4       | 38    | 0.1      | 0.1     | 35      | 258.8                     | 2458.3 | 6.47     | 6.47    | 2264.2  |
| 5-13-76  | 2.189          | 6.7                   | 8       | 38    | 0.3      | 0.25    | 58      | 146.1                     | 694.2  | 5.48     | 4.57    | 1059.5  |
| 6-17-76  | 7.883          | 6.8                   | 22      | 36    | 0.9      | 0.7     | 108     | 1447.3                    | 2368.3 | 59.21    | 46.05   | 7104.8  |
| Average  | 7.243          | 6.9                   | 4.3     | 37.1  | 0.32     | 0.20    | 54      | 314.1                     | 1722.0 | 22.93    | 11.24   | 3931.3  |

Sta. C1-21a Location Babb Creek 300 ± ft. Upstream from Mouth of Lick Creek

Elevation 1360

| Date     | Flow<br>M.G.D. | Water Analysis - mg/l |         |       |          |         |         | Daily Discharge - lbs/day |       |          |         |         |
|----------|----------------|-----------------------|---------|-------|----------|---------|---------|---------------------------|-------|----------|---------|---------|
|          |                | pH                    | Acidity | Alky. | Total Fe | Ferrous | Sulfate | Acidity                   | Alky. | Total Fe | Ferrous | Sulfate |
| 7- 7-75  | 7.129          | 6.8                   | 0       | 16    | 0.1      | -       | 16      | 0                         | 952   | 5.95     | -       | 952     |
| 8- 4-75  | 2.288          | 6.9                   | 0       | 14    | 0.06     | -       | 6       | 0                         | 267   | 1.14     | -       | 115     |
| 9-18-75  | 11.453         | 7.4                   | 4       | 20    | 0.625    | 0.06    | 14      |                           | 1912  | 59.74    | 5.73    | 1338    |
| 10- 8-75 | 11.416         | 5.5                   | 40      | 16    | 0.05     | 0       | 32.5    | 3810                      | 1524  | 4.76     | 0       | 3096    |
| 11- 5-75 | 9.313          | 6.4                   | 4       | 19    | 0.1      | 0       | 110     | 310                       | 1476  | 7.77     | 0       | 8549    |
| 12- 8-75 | 7.896          | 6.5                   | 2       | 28    | 0.01     | 0       | 110     | 131                       | 1845  | 0.66     | 0       | 7248    |
| 1- 7-76  | 11.003 *       | 6.4                   | 2       | 18    | 0.01     | 0       | 40      | 183                       | 1652  | 0.91     | 0       | 3672    |
| 2-13-76  | 12.646 *       | 6.9                   | 14      | 8     | 0.2      | 0       | 60      | 1477                      | 844   | 21.11    | 0       | 6331    |
| 3- 4-76  | 16.874 *       | 5.4                   | 8       | 20    | 0.09     | 0       | 75      | 7802                      | 19506 | 87.77    | 0       | 73149   |
| 4- 7-76  | 16.823         | 5.7                   | 8       | 16    | 0.02     | 0       | 83      | 1123                      | 2246  | 2.81     | 0       | 11652   |
| 5-13-76  | 11.657         | 6.5                   | 2       | 14    | 0.1      | 0.05    | 58      | 194                       | 1361  | 9.73     | 4.86    | 5642    |
| 6-17-76  | 22.644         | 6.6                   | 14      | 18    | 0.3      | 0.2     | 95      | 2645                      | 3401  | 56.69    | 37.79   | 17951   |
| Average  | 11.762         | 6.4                   | 8.2     | 17.3  | 0.14     | 0.03    | 58      | 1505                      | 3082  | 21.59    | 4.84    | 11641   |

Sta. C7-1

Location- Mouth of Lick Creek

Elevation 1360

| Date    | Flow<br>M.G.D. | Water Analysis - mg/l |         |       |          |         |         | Daily Discharge - lbs/day |        |          |         |         |
|---------|----------------|-----------------------|---------|-------|----------|---------|---------|---------------------------|--------|----------|---------|---------|
|         |                | pH                    | Acidity | Alky. | Total Fe | Ferrous | Sulfate | Acidity                   | Alky.  | Total Fe | Ferrous | Sulfate |
| 7-7-75  | 7.614          | 4.0                   | 20      | 0     | 0.62     | -       | 24      | 1271                      | 0      | 39.4     | -       | 1525    |
| 8-4-75  | 2.689          | 3.7                   | 66      | 0     | 0.63     | -       | 46      | 1481                      | 0      | 14.1     | -       | 1032    |
| 9-18-75 | 5.953          | 4.1                   | 32      | 0.5   | 3.75     | 0.19    | 25      | 1590                      | 25     | 186.3    | 9.44    | 1242    |
| 10-8-75 | 7.210          | 3.8                   | 8       | 0     | 0.47     | 0.45    | 60      | 481.3                     | 0      | 28.28    | 27.08   | 3610.1  |
| 11-5-75 | 6.690          | 3.8                   | 24      | 0     | 0.4      | 0.15    | 75      | 1339.9                    | 0      | 22.33    | 8.37    | 4187.2  |
| 12-8-75 | 7.925          | 4.0                   | 16      | 0     | 0.3      | 0.1     | 90      | 1058.2                    | 0      | 19.84    | 6.61    | 5952.2  |
| 1-7-76  | 6.788          | 4.1                   | 32      | 2     | 0.3      | 0.15    | 110     | 1812.7                    | 113.7  | 17.00    | 8.50    | 6231.2  |
| 2-13-76 | 8.352 *        | 3.8                   | 18      | 0     | 0.3      | 1.45    | 90      | 1254.6                    | 0      | 20.91    | 101.06  | 6272.9  |
| 3-5-76  | 30.723 *       | 4.8                   | 14      | 6     | 0.2      | 0       | 75      | 3589.4                    | 1538.3 | 51.28    | 0       | 19229.1 |
| 4-7-76  | 11.147         | 4.0                   | 16      | 0     | 0.3      | 0.2     | 75      | 1488.4                    | 0      | 27.91    | 18.60   | 6976.8  |
| 5-13-76 | 8.075          | 4.3                   | 12      | 0     | 0.2      | 0.15    | 65      | 808.6                     | 0      | 13.48    | 10.11   | 4380.2  |
| 6-17-76 | 13.272         | 3.9                   | 18      | 0     | 0.5      | 0.3     | 70      | 1993.6                    | 0      | 55.38    | 33.23   | 7753.0  |
| Average | 9.703          | 4.0                   | 22.2    | 0.7   | 0.66     | 0.31    | 67      | 1514.1                    | 139.8  | 41.40    | 22.35   | 5699.3  |

Sta. C7-2

Location A.M.D. Source - Main Entry with Air Seal, "B" Vein, Klondike Mine

Elevation 1724

| Date    | Flow<br>M.G.D. | Water Analysis - mg/l |         |       |          |         |         | Daily Discharge - lbs/day |       |          |         |         |
|---------|----------------|-----------------------|---------|-------|----------|---------|---------|---------------------------|-------|----------|---------|---------|
|         |                | pH                    | Acidity | Alky. | Total Fe | Ferrous | Sulfate | Acidity                   | Alky. | Total Fe | Ferrous | Sulfate |
| 7-2-75  | 0.378          | 3.0                   | 150     | 0     | 7.35     | -       | 176     | 473                       | 0     | 23.2     | -       | 555     |
| 8-4-75  | 0.401          | 3.0                   | 166     | 0     | 8.1      | -       | 182     | 555                       | 0     | 27.1     | -       | 609     |
| 9-17-75 | 0.270          | 2.9                   | 214     | 0     | 43.75    | 0.12    | 125     | 482                       | 0     | 98.58    | 0.27    | 282     |
| 10-8-75 | 0.630          | 3.0                   | 160     | 0     | 8.8      | 0.3     | 650     | 841.2                     | 0     | 46.27    | 1.58    | 3417.3  |
| 11-6-75 | 0.367          | 3.2                   | 160     | 0     | 7.5      | 0.4     | 750     | 489.5                     | 0     | 22.95    | 1.22    | 2294.5  |
| 12-7-75 | 0.542          | 3.3                   | 76      | 0     | 7.1      | 0.2     | 325     | 343.5                     | 0     | 32.09    | 0.90    | 1468.9  |
| 1-7-76  | 0.479          | 3.0                   | 168     | 0     | 6.9      | 0.15    | 215     | 671.6                     | 0     | 27.58    | 0.60    | 859.4   |
| 2-14-76 | 0.374          | 3.6                   | 164     | 0     | 7.1      | 0       | 262     | 511.9                     | 0     | 22.16    | 0       | 817.7   |
| 3-3-76  | 0.683          | 3.3                   | 124     | 0     | 9.5      | 0       | 500     | 706.8                     | 0     | 54.15    | 0       | 2849.9  |
| 4-7-76  | 0.863          | 3.0                   | 130     | 0     | 5.3      | 0       | 185     | 936.2                     | 0     | 38.17    | 0       | 1332.3  |
| 5-12-76 | 0.268          | 3.2                   | 158     | 0     | 6.7      | 0.5     | 210     | 353.4                     | 0     | 14.98    | 1.12    | 469.7   |
| 6-16-76 | 0.287          | 2.7                   | 172     | 0     | 6.6      | 0.3     | 288     | 412.0                     | 0     | 15.81    | 0.72    | 689.8   |
| Average | 0.462          | 3.1                   | 153.5   | 0     | 10.39    | 0.20    | 322     | 564.7                     | 0     | 35.25    | 0.64    | 1303.8  |

Sta. C8-1

Location Mouth of South Creek

Elevation 1630

| Date    | Flow<br>M.G.D. | Water Analysis - mg/l |         |       |          |         |         | Daily Discharge - lbs/day |        |          |         |         |
|---------|----------------|-----------------------|---------|-------|----------|---------|---------|---------------------------|--------|----------|---------|---------|
|         |                | pH                    | Acidity | Alky. | Total Fe | Ferrous | Sulfate | Acidity                   | Alky.  | Total Fe | Ferrous | Sulfate |
| 7-10-75 | 9.443          | 4.2                   | 14      | 2     | 0.41     | -       | 40      | 1103                      | 158    | 32       | -       | 3152    |
| 8-4-75  | 1.545          | 4.2                   | 14      | 2     | 0.65     | -       | 20      | 180                       | 26     | 8.38     | -       | 258     |
| 9-17-75 | 2.592          | 4.4                   | 12      | 0     | 1.7      | 0       | 12      | 260                       | 0      | 36.77    | 0       | 260     |
| 10-8-75 | 5.016          | 3.8                   | 8       | 0     | 0.18     | 0.15    | 32.5    | 334.9                     | 0      | 7.53     | 6.28    | 1360.5  |
| 11-5-75 | 3.893          | 4.2                   | 24      | 4     | 0.2      | 0.1     | 120     | 779.7                     | 129.9  | 6.49     | 3.25    | 3898.5  |
| 12-8-75 | 4.001          | 4.3                   | 8       | 16    | 0.1      | 0       | 75      | 267.1                     | 534.2  | 3.34     | 0       | 2504.2  |
| 1-7-76  | 3.932          | 4.3                   | 28      | 4     | 0.1      | 0.1     | 120     | 918.8                     | 131.3  | 3.28     | 3.28    | 3937.6  |
| 2-13-76 | 4.838*         | 6.2                   | 6       | 12    | 0.2      | 0.1     | 70      | 242.2                     | 484.5  | 8.07     | 4.03    | 2826.2  |
| 3-5-76  | 17.515         | 4.5                   | 8       | 12    | 0.1      | 0       | 60      | 1169.3                    | 1753.9 | 14.62    | 0       | 8769.9  |
| 4-7-76  | 4.650          | 4.3                   | 14      | 8     | 0.1      | 0.05    | 115     | 543.3                     | 310.4  | 3.88     | 1.94    | 4462.6  |
| 5-12-76 | 4.561          | 4.5                   | 14      | 12    | 0.2      | 0.15    | 83      | 532.9                     | 456.7  | 7.61     | 5.71    | 3159.2  |
| 6-17-76 | 8.227          | 4.3                   | 16      | 4     | 0.04     | 0.35    | 100     | 1098.5                    | 274.6  | 27.46    | 24.03   | 6865.6  |
| Average | 6.101          | 4.4                   | 13.8    | 6.3   | 0.36     | 0.10    | 71      | 619.1                     | 355.0  | 13.29    | 4.85    | 3459.5  |

Sta. C8-4

Location A.M.D. Source - Mine Drift, "B" Vein, Arnot No. 2 Mine

Elevation 1710

| Date     | Flow<br>M.G.D. | Water Analysis - mg/l |         |       |          |         |         | Daily Discharge - lbs/day |       |          |         |         |
|----------|----------------|-----------------------|---------|-------|----------|---------|---------|---------------------------|-------|----------|---------|---------|
|          |                | pH                    | Acidity | Alky. | Total Fe | Ferrous | Sulfate | Acidity                   | Alky. | Total Fe | Ferrous | Sulfate |
| 7- 2-75  | 0.190          | 5.7                   | 40      | 10    | 0.01     | -       | 66      | 63                        | 16    | 0.02     | -       | 105     |
| 8- 4-75  | 0.190          | 4.4                   | 36      | 4     | 0.2      | -       | 176     | 57                        | 6     | 0.32     | -       | 279     |
| 9-17-75  | 0.171          | 4.3                   | 41      | 3     | 4.4      | 0       | 150     | 59                        | 4     | 6.38     | 0       | 214     |
| 10- 8-75 | 0.886          | 4.6                   | 12      | 20    | 0.13     | 0.1     | 180     | 88.7                      | 147.9 | 0.96     | 0.74    | 1330.9  |
| 11- 5-75 | 0.564          | 4.7                   | 24      | 7     | 0.2      | 0.05    | 200     | 112.9                     | 32.9  | 0.94     | 0.24    | 941.3   |
| 12- 7-75 | 0.499          | 5.0                   | 12      | 12    | 0.05     | 0       | 135     | 50.0                      | 50.0  | 0.21     | 0       | 562.5   |
| 1- 7-76  | 0.833          | 4.8                   | 20      | 8     | 0.2      | 0       | 180     | 139.0                     | 55.6  | 1.39     | 0       | 1251.3  |
| 2-14-76  | 0.642          | 4.7                   | 26      | 14    | 0.2      | 0.2     | 175     | 139.3                     | 75.0  | 1.07     | 1.07    | 937.6   |
| 3- 3-76  | 1.610          | 5.2                   | 12      | 8     | 0.4      | 0       | 180     | 161.2                     | 107.5 | 5.37     | 0       | 2418.4  |
| 4- 7-76  | 1.310          | 4.7                   | 14      | 10    | 0.1      | 0.05    | 155     | 153.1                     | 109.3 | 1.09     | 0.55    | 1694.5  |
| 5-12-76  | 0.384          | 4.7                   | 50      | 8     | 0.2      | 0.15    | 185     | 160.2                     | 25.6  | 0.64     | 0.48    | 592.8   |
| 6-16-76  | 0.466          | 4.4                   | 26      | 18    | 0.2      | 0.15    | 155     | 101.1                     | 70.0  | 0.78     | 0.58    | 602.8   |
| Average  | 0.645          | 4.8                   | 26.1    | 10    | 0.52     | 0.07    | 161     | 107.0                     | 58.3  | 1.60     | 0.37    | 910.8   |

Sta. C8-5

Location A.M.D. Source - Mine Drift, "B" Vein, Arnot No. 2 Mine

Elevation 1716

| Date     | Flow<br>M.G.D. | Water Analysis - mg/l |         |       |          |         |         | Daily Discharge - lbs/day |       |          |         |         |
|----------|----------------|-----------------------|---------|-------|----------|---------|---------|---------------------------|-------|----------|---------|---------|
|          |                | pH                    | Acidity | Alky. | Total Fe | Ferrous | Sulfate | Acidity                   | Alky. | Total Fe | Ferrous | Sulfate |
| 7- 2-75  | 0.183          | 3.3                   | 66      | 0     | 1.22     | -       | 96      | 101                       | 0     | 1.86     | -       | 147     |
| 8- 4-75  | 0.086          | 3.3                   | 136     | 0     | 1.25     | -       | 126     | 98                        | 0     | 0.90     | -       | 90      |
| 9-17-75  | 0.163          | 3.4                   | 105     | 0     | 3.5      | 0       | 150     | 142                       | 0     | 4.76     | 0       | 204     |
| 10- 8-75 | 0.307          | 3.6                   | 64      | 0     | 1.7      | 0.2     | 125     | 164.0                     | 0     | 4.36     | 0.51    | 320.2   |
| 11- 5-75 | 0.235          | 3.4                   | 72      | 0     | 1.4      | 0.05    | 350     | 141.2                     | 0     | 2.75     | 0.10    | 686.4   |
| 12- 7-75 | 0.191          | 3.5                   | 68      | 0     | 1.2      | 0.2     | 115     | 108.4                     | 0     | 1.91     | 0.32    | 183.3   |
| 1- 7-76  | 0.185          | 3.3                   | 54      | 0     | 1.1      | 0.35    | 155     | 83.4                      | 0     | 1.70     | 0.54    | 239.3   |
| 2-14-76  | 0.204          | 3.8                   | 70      | 0     | 1.2      | 0.2     | 240     | 119.2                     | 0     | 2.04     | 0.34    | 408.6   |
| 3- 3-76  | 0.340          | 3.6                   | 40      | 0     | 1.2      | 0.1     | 125     | 113.5                     | 0     | 3.40     | 0.28    | 354.7   |
| 4-7-76   | 0.363          | 3.5                   | 58      | 0     | 0.8      | 0.1     | 128     | 175.7                     | 0     | 2.42     | 0.30    | 387.7   |
| 5-12-76  | 0.146          | 3.5                   | 84      | 0     | 0.9      | 0.2     | 165     | 102.3                     | 0     | 1.10     | 0.24    | 201.0   |
| 6-16-76  | 0.166          | 3.1                   | 86      | 0     | 1.0      | 0.1     | 120     | 119.1                     | 0     | 1.39     | 0.14    | 166.2   |
| Average  | 0.214          | 3.4                   | 75.3    | 0     | 1.54     | 0.15    | 158     | 122.3                     | 0     | 2.38     | 0.28    | 282.4   |

Sta. C8-7

Location - Mine Drainage, Drift, "B" Vein, Arnot No. 1 Mine

Elevation 1707

| Date     | Flow<br>M.G.D. | Water Analysis - mg/l |         |       |          |         |         | Daily Discharge - lbs/day |       |          |         |         |
|----------|----------------|-----------------------|---------|-------|----------|---------|---------|---------------------------|-------|----------|---------|---------|
|          |                | pH                    | Acidity | Alky. | Total Fe | Ferrous | Sulfate | Acidity                   | Alky. | Total Fe | Ferrous | Sulfate |
| 7- 2-75  | 0.019          | 4.4                   | 28      | 4     | 0.06     | -       | 166     | 4                         | 1     | 0.01     | -       | 26      |
| 8- 4-75  | 0.016          | 5.7                   | 10      | 10    | 0.14     | -       | 74      | 1                         | 1     | 0.02     | -       | 10      |
| 9-17-75  | 0.013          | 5.4                   | 12      | 14    | 0.85     | 0       | 56      | 1                         | 2     | 0.09     | 0       | 6       |
| 10- 8-75 | 0.018          | 5.2                   | 16      | 28    | 0.01     | 0       | 95      | 2.4                       | 4.2   | 0.002    | 0       | 14.3    |
| 11- 5-75 | 0.034          | 5.0                   | 16      | 15    | 0.2      | 0       | 140     | 4.5                       | 4.3   | 0.05     | 0       | 39.7    |
| 12- 7-75 | 0.021          | 5.0                   | 8       | 24    | 0.01     | 0       | 70      | 1.4                       | 4.2   | 0.002    | 0       | 12.4    |
| 1- 7-76  | 0.073          | 5.3                   | 4       | 10    | 0.03     | 0       | 65      | 2.4                       | 6.1   | 0.02     | 0       | 39.6    |
| 2-14-76  | 0.024          | 7.8                   | 6       | 26    | 0.05     | 0       | 130     | 1.2                       | 5.2   | 0.01     | 0       | 26.0    |
| 3- 3-76  | 0.035          | 7.2                   | 6       | 8     | 0.09     | 0       | 85      | 1.7                       | 2.3   | 0.02     | 0       | 24.8    |
| 4- 7-76  | 0.024          | 5.5                   | 4       | 18    | 0.03     | 0       | 100     | 0.8                       | 3.6   | 0.01     | 0       | 20.0    |
| 5-12-76  | 0.023          | 5.6                   | 6       | 20    | 0.05     | 0       | 83      | 1.2                       | 3.8   | 0.01     | 0       | 15.9    |
| 6-16-76  | 0.024          | 5.5                   | 26      | 14    | 0.02     | 0       | 83      | 5.2                       | 2.8   | 0.004    | 0       | 16.6    |
| Average  | 0.027          | 5.6                   | 11.8    | 15.9  | 0.13     | 0       | 96      | 2.2                       | 3.4   | 0.02     | 0       | 20.9    |



| Date     | Flow  | Water Analysis - mg/1 |         |       |          |         |         | Daily Discharge - lbs/day |       |          |         |         |
|----------|-------|-----------------------|---------|-------|----------|---------|---------|---------------------------|-------|----------|---------|---------|
|          |       | pH                    | Acidity | Alky. | Total Fe | Ferrous | Sulfate | Acidity                   | Alky. | Total Fe | Ferrous | Sulfate |
| 7- 2-75  | 0.479 | 3.3                   | 550     | 0     | 1.16     | -       | 112     | 2198                      | 0     | 4.64     | -       | 448     |
| 8- 4-75  | 0.379 | 3.3                   | 80      | 0     | 1.34     | -       | 130     | 253                       | 0     | 4.24     | -       | 411     |
| 9-17-75  | 0.203 | 3.3                   | 105     | 0     | 2.9      | 0       | 65      | 178                       | 0     | 4.91     | 0       | 11      |
| 10- 8-75 | 0.426 | 3.3                   | 72      | 0     | 1.22     | 0       | 150     | 255.9                     | 0     | 4.34     | 0       | 533.3   |
| 11- 5-75 | 0.385 | 3.4                   | 96      | 0     | 1.4      | 0.05    | 450     | 308.2                     | 0     | 4.50     | 0.16    | 1444.7  |
| 12- 7-75 | 0.315 | 3.5                   | 72      | 0     | 1.2      | 0.1     | 100     | 189.3                     | 0     | 3.15     | 0.26    | 262.9   |
| 1- 7-76  | 0.562 | 3.3                   | 80      | 0     | 1.1      | 0.25    | 195     | 375.2                     | 0     | 5.16     | 1.17    | 914.5   |
| 2-14-76  | 0.384 | 3.9                   | 78      | 0     | 1.2      | 0.2     | 195     | 249.8                     | 0     | 3.85     | 0.64    | 624.9   |
| 3- 3-76  | 0.627 | 3.5                   | 60      | 0     | 1.6      | 0       | 195     | 313.9                     | 0     | 8.37     | 0       | 1020.3  |
| 4-7-76*  | 0.568 | 3.5                   | 62      | 0     | 0.9      | 0.05    | 173     | 293.8                     | 0     | 4.26     | 0.24    | 820.0   |
| 5-12-76  | 0.335 | 3.5                   | 76      | 0     | 1.1      | 0.2     | 155     | 212.5                     | 0     | 3.08     | 0.56    | 433.3   |
| 6-16-76  | 0.411 | 3.2                   | 72      | 0     | 1.2      | 0.2     | 128     | 246.9                     | 0     | 4.12     | 0.69    | 439.0   |
| Average  | 0.423 | 3.4                   | 116.9   | 0     | 1.36     | 0.11    | 171     | 422.9                     | 0     | 4.55     | 0.37    | 613.6   |

Sta. C8-9

Location - Mine Drainage - South Drift, "B" Vein, Arnot No. 2 Mine

Elevation 1696

| Date     | Flow M.G.D. | Water Analysis - mg/1 |         |        |          |         |         | Daily Discharge - lbs/day |       |          |         |         |
|----------|-------------|-----------------------|---------|--------|----------|---------|---------|---------------------------|-------|----------|---------|---------|
|          |             | pH                    | Acidity | Alky.  | Total Fe | Ferrous | Sulfate | Acidity                   | Alky. | Total Fe | Ferrous | Sulfate |
|          |             |                       | NO      | SAMPLE | TAKEN    |         |         |                           |       |          |         |         |
|          |             |                       | NO      | SAMPLE | TAKEN    |         |         |                           |       |          |         |         |
| 9-17-75  | 0.187       | 5.6                   | 8       | 18     | 7.0      | 0       | 14      | 12                        | 28    | 10.92    | 0       | 22      |
| 10- 8-75 | 0.922       | 5.2                   | 8       | 20     | 0.01     | 0       | 65      | 61.6                      | 133.9 | 0.08     | 0       | 500.1   |
| 11- 5-75 | 0.198       | 5.3                   | 16      | 15     | 0.05     | 0       | 110     | 13.1                      | 12.3  | 0.04     | 0       | 90.3    |
| 12- 7-75 | 0.262       | 5.3                   | 4       | 22     | 0.05     | 0       | 52      | 8.7                       | 48.1  | 0.11     | 0       | 113.7   |
| 1- 7-76  | 0.602       | 5.6                   | 2       | 18     | 0.03     | 0       | 65      | 10.0                      | 90.4  | 0.15     | 0       | 326.5   |
| 2-14-76  | 0.553       | 8.0                   | 4       | 32     | 0.1      | 0.1     | 100     | 18.5                      | 147.7 | 0.46     | 0.46    | 461.5   |
| 3- 3-76  | 0.992       | 7.9                   | 2       | 16     | 0.03     | 0       | 125     | 16.6                      | 132.5 | 0.24     | 0       | 1034.8  |
| 4- 7-76  | 0.641       | 5.4                   | 4       | 16     | 0.03     | 0       | 100     | 21.4                      | 85.6  | 0.16     | 0       | 534.9   |
| 5-12-76  | 0.794       | 5.8                   | 6       | 22     | 0.02     | 0       | 58      | 39.8                      | 145.8 | 0.13     | 0       | 384.3   |
| 6-16-76  | 0.414       | 5.6                   | 18      | 16     | 0.03     | 0       | 50      | 62.2                      | 55.3  | 0.10     | 0       | 172.7   |
| Average  | 0.557       | 6.0                   | 7.2     | 19.5   | 0.74     | 0.01    | 74      | 26.4                      | 90.0  | 1.03     | 0.05    | 364.1   |

Sta. C9-1

Location Mouth of Red Run

Elevation 1535

| Date     | Flow M.G.D. | Water Analysis - mg/1 |         |              |          |         |         | Daily Discharge - lbs/day |       |          |         |         |
|----------|-------------|-----------------------|---------|--------------|----------|---------|---------|---------------------------|-------|----------|---------|---------|
|          |             | pH                    | Acidity | Alky.        | Total Fe | Ferrous | Sulfate | Acidity                   | Alky. | Total Fe | Ferrous | Sulfate |
| 7- 2-75  | 2.133       | 3.6                   | 36      | 0            | 3.5      | -       | 28      | 641                       | 0     | 62.3     | -       | 498     |
| 8- 4-75  | 0.795       | 3.4                   | 54      | 0            | 3.0      | -       | 40      | 358                       | 0     | 19.9     | -       | 265     |
| 9-17-75  | 2.385       | 3.2                   | 129     | 0            | 8.5      | 0.3     | 100     | 2568                      | 0     | 169.18   | 5.97    | 1990    |
| 10- 8-75 | 1.041       | 3.7                   | 24      | 0            | 1.23     | 0.4     | 70      | 208.5                     | 0     | 10.69    | 3.47    | 608.1   |
| 11- 5-75 | 0.924       | 3.7                   | 40      | 0            | 1.4      | 0.4     | 75      | 308.4                     | 0     | 10.79    | 3.08    | 578.3   |
| 12- 8-75 | 0.880       | 4.0                   | 24      | 0            | 1.2      | 0.2     | 50      | 176.2                     | 0     | 8.81     | 1.47    | 367.2   |
| 1- 7-76  | 1.487       | 3.8                   | 30      | 0            | 1.2      | 0.6     | 80      | 372.3                     | 0     | 14.89    | 7.45    | 992.7   |
| 2-14-76  |             |                       |         | INACCESSIBLE | NO       | SAMPLE  | TAKEN   |                           |       |          |         |         |
| 3- 5-76  | 7.893       | 4.6                   | 10      | 10           | 0.5      | 0.25    | 75      | 658.7                     | 658.7 | 32.93    | 16.47   | 4940.1  |
| 4-7-76   | 0.744       | 3.8                   | 22      | 0            | 0.8      | 0.6     | 75      | 136.6                     | 0     | 4.97     | 3.73    | 465.7   |
| 5-12-76  | 0.513       | 4.1                   | 30      | 4            | 1.2      | 0.7     | 65      | 128.4                     | 17.1  | 5.14     | 3.00    | 278.3   |
| 6-17-76  | 1.649       | 3.9                   | 26      | 0            | 2.7      | 1.0     | 58      | 357.8                     | 0     | 37.16    | 13.76   | 798.1   |
| Average  | 1.859       | 3.8                   | 38.6    | 1.3          | 2.29     | 0.49    | 65      | 537.6                     | 61.4  | 34.25    | 6.49    | 1071.1  |

Sta. C9-2

Location A.M.D. Source - "Davis" Drift with Air Seal, "B" Vein, Klondike Mine Elevation 1755

| Date     | Flow<br>M.G.D. | Water Analysis - mg/l |         |       |          |         |         | Daily Discharge - lbs/day |       |          |         |         |
|----------|----------------|-----------------------|---------|-------|----------|---------|---------|---------------------------|-------|----------|---------|---------|
|          |                | pH                    | Acidity | Alky. | Total Fe | Ferrous | Sulfate | Acidity                   | Alky. | Total Fe | Ferrous | Sulfate |
| 7- 2-75  | 0.424          | 3.2                   | 110     | 0     | 1.04     | -       | 242     | 389                       | 0     | 3.68     | -       | 856     |
| 8- 4-75  | 0.166          | 3.2                   | 76      | 0     | 2.55     | -       | 98      | 105                       | 0     | 3.53     | -       | 136     |
| 9-17-75  | 0.102          | 3.4                   | 81      | 0     | 4.4      | 0.25    | 78      | 69                        | 0     | 3.75     | 0.21    | 66      |
| 10- 8-75 | 0.262          | 3.4                   | 48      | 0     | 3.2      | 0.25    | 120     | 104.9                     | 0     | 7.00     | 0.55    | 262.4   |
| 11- 6-75 | 0.194          | 3.5                   | 64      | 0     | 3.2      | 0.45    | 100     | 103.8                     | 0     | 5.19     | 0.73    | 162.2   |
| 12- 7-75 | 0.218          | 3.7                   | 60      | 0     | 3.1      | 0.2     | 65      | 109.4                     | 0     | 5.65     | 0.36    | 118.5   |
| 1- 7-76  | 0.206          | 3.3                   | 54      | 0     | 3.0      | 0.2     | 140     | 92.8                      | 0     | 5.16     | 0.34    | 240.7   |
| 2-14-76  | 0.169          | 4.0                   | 66      | 0     | 2.9      | 0       | 130     | 93.1                      | 0     | 4.09     | 0       | 183.3   |
| 3- 3-76  | 0.255          | 3.5                   | 54      | 0     | 3.6      | 0       | 120     | 114.9                     | 0     | 7.66     | 0       | 255.4   |
| 4- 7-76  | 0.207          | 3.3                   | 64      | 0     | 2.3      | 0       | 128     | 110.6                     | 0     | 3.97     | 0       | 221.1   |
| 5-12-76  | 0.144          | 3.5                   | 70      | 0     | 2.9      | 0.5     | 108     | 84.1                      | 0     | 3.48     | 0.60    | 129.8   |
| 6-16-76  | 0.154          | 3.0                   | 70      | 0     | 2.7      | 0.3     | 115     | 90.0                      | 0     | 3.47     | 0.39    | 147.8   |
| Average  | 0.208          | 3.4                   | 68.1    | 0     | 2.91     | 0.22    | 120     | 122.2                     | 0     | 4.72     | 0.32    | 231.6   |

Sta. C10-1

Location Sand Run Control - Mouth of Stream

Elevation 1440

| Date     | Flow<br>M.G.D. | Water Analysis - mg/l |         |       |          |         |         | Daily Discharge - lbs/day |        |          |         |         |
|----------|----------------|-----------------------|---------|-------|----------|---------|---------|---------------------------|--------|----------|---------|---------|
|          |                | pH                    | Acidity | Alky. | Total Fe | Ferrous | Sulfate | Acidity                   | Alky.  | Total Fe | Ferrous | Sulfate |
| 7- 7-75  | 2.650          | 6.7                   | 0       | 12    | 0.4      | -       | 22      | 0                         | 265    | 8.84     | -       | 487     |
| 8- 4-75  | 2.210          | 6.7                   | 0       | 10    | 0.16     | -       | 6       | 0                         | 184    | 2.95     | -       | 111     |
| 9-17-75  | 3.886          | 6.3                   | 8       | 16    | 1.69     | 0.19    | 6       | 259                       | 519    | 54.81    | 6.16    | 195     |
| 10- 8-75 | 6.799          | 4.9                   | 8       | 8     | 0.11     | 0       | 30      | 453.91                    | 453.91 | 6.24     | 0       | 1702.2  |
| 11- 5-75 | 4.597          | 5.5                   | 6       | 7     | 0.2      | 0       | 33      | 230.2                     | 268.5  | 7.67     | 0       | 1265.9  |
| 12- 8-75 | 4.521 *        | 5.4                   | 4       | 28    | 0.05     | 0.05    | 100     | 150.9                     | 1056.4 | 1.88     | 1.88    | 3772.8  |
| 1- 7-76  | 5.225 *        | 5.7                   | 6       | 8     | 0.07     | 0       | 12      | 261.6                     | 348.8  | 3.05     | 0       | 523.2   |
| 2-13-76  | 6.429 *        | 7.8                   | 4       | 20    | 0.1      | 0       | 50      | 214.6                     | 1073.0 | 5.37     | 0       | 2682.6  |
| 3- 4-76  | 59.420 *       | 7.1                   | 2       | 6     | 0.3      | 0       | 120     | 991.7                     | 2975.2 | 148.80   | 0       | 59504.3 |
| 4- 7-76  | 10.310         | 5.8                   | 6       | 10    | 0.1      | 0.05    | 70      | 516.2                     | 860.4  | 8.60     | 4.30    | 6022.7  |
| 5-10-76  | 5.535          | 6.1                   | 2       | 10    | 0.5      | 0.3     | 58      | 92.4                      | 461.9  | 23.10    | 13.86   | 2679.0  |
| 6-17-76  | 17.034         | 6.7                   | 14      | 10    | 0.3      | 0.2     | 75      | 1990.1                    | 1421.5 | 42.65    | 28.43   | 10661.4 |
| Average  | 10.717         | 6.2                   | 5.0     | 13.1  | 0.33     | 0.08    | 48      | 430.1                     | 824.0  | 26.16    | 5.46    | 7467.3  |

Sta. C12-1

Location Nickel Run Control - Mouth of Stream

Elevation 1185

| Date     | Flow<br>M.G.D. | Water Analysis - mg/l |         |       |          |         |              | Daily Discharge - lbs/day |        |          |         |         |
|----------|----------------|-----------------------|---------|-------|----------|---------|--------------|---------------------------|--------|----------|---------|---------|
|          |                | pH                    | Acidity | Alky. | Total Fe | Ferrous | Sulfate      | Acidity                   | Alky.  | Total Fe | Ferrous | Sulfate |
| 7- 7-75  | 2.094          | 6.1                   | 4       | 6     | 0.01     | -       | 12           | 70                        | 105    | 0.17     | -       | 210     |
| 8- 4-75  | 1.666          | 6.4                   | 0       | 6     | 0.01     | -       | 6            | 0                         | 83     | 0.14     | -       | 83      |
| 9-17-75  | 3.154          | 6.1                   | 20      | 12    | 1.3      | 0.56    | 6            | 526                       | 316    | 34.22    | 14.74   | 158     |
| 10- 8-75 | 3.293          | 5.2                   | 8       | 12    | 0.02     | 0       | 40           | 219.8                     | 329.8  | 0.54     | 0       | 1099.2  |
| 11- 5-75 | 1.709          | 5.4                   | 16      | 15    | 0.05     | 0       | 165          | 228.2                     | 213.9  | 0.71     | 0       | 2353.2  |
| 12- 8-75 | 5.792          | 5.5                   | 4       | 26    | 0.01     | 0       | 32           | 193.3                     | 1256.7 | 0.48     | 0       | 1546.7  |
| 1- 8-76  | 2.789          | 5.6                   | 4       | 6     | 0.01     | 0       | 35           | 93.1                      | 139.7  | 0.23     | 0       | 814.6   |
| 2-13-76  | 3.431          | 6.9                   | 12      | 4     | 0.03     | 0       | 90           | 343.6                     | 114.5  | 0.86     | 0       | 2576.9  |
| 3- 5-76  |                | NO                    | SAMPLE  | TAKEN | SAMPLE   | STA.    | INACCESSIBLE |                           |        |          |         |         |
| 4- 6-76  | 3.290          | 5.7                   | 6       | 8     | 0.03     | 0       | 41           | 164.7                     | 219.6  | 0.82     | 0       | 1125.7  |
| 5-10-76  | 4.620 *        | 6.3                   | 2       | 8     | 0.02     | 0       | 85           | 77.1                      | 308.4  | 0.77     | 0       | 3277.1  |
| 6-17-76  | 4.095          | 6.5                   | 20      | 8     | 0.1      | 0.1     | 58           | 683.5                     | 273.4  | 3.42     | 3.42    | 1982.1  |
| Average  | 3.267          | 6.0                   | 8.7     | 10.09 | 0.14     | 0.07    | 52           | 236.3                     | 305.4  | 3.84     | 2.02    | 1384.2  |

Sta. C13-1

Location Mouth of Rock Run

Elevation 1160

| Date     | Flow M.G.D. | Water Analysis - mg/1 |         |       |          |         |         | Daily Discharge - lbs/day |       |          |         |         |
|----------|-------------|-----------------------|---------|-------|----------|---------|---------|---------------------------|-------|----------|---------|---------|
|          |             | pH                    | Acidity | Alky. | Total Fe | Ferrous | Sulfate | Acidity                   | Alky. | Total Fe | Ferrous | Sulfate |
| 7- 7-75  | 1.234       | 3.7                   | 152     | 0     | 1.37     | -       | 242     | 1565                      | 0     | 14.1     | -       | 2492    |
| 8- 4-75  | 0.453       | 3.7                   | 210     | 0     | 0.57     | -       | 264     | 794                       | 0     | 2.15     | -       | 998     |
| 9-17-75  | 1.667       | 3.7                   | 162     | 0     | 4.2      | 3.0     | 105     | 2254                      | 0     | 58.43    | 41.73   | 1461    |
| 10- 8-75 | 3.710       | 3.9                   | 8       | 0     | 0.49     | 0.35    | 165     | 247.7                     | 0     | 15.17    | 10.84   | 5108.5  |
| 11- 5-75 | 2.004       | 4.2                   | 64      | 4     | 0.3      | 0.15    | 275     | 1070.3                    | 66.9  | 5.02     | 2.51    | 4599.0  |
| 12- 8-75 | 5.553       | 4.8                   | 36      | 4     | 0.3      | 0.2     | 30      | 1668.3                    | 185.3 | 13.90    | 9.27    | 1390.2  |
| 1- 8-76  | 2.473       | 4.4                   | 36      | 6     | 0.3      | 0.05    | 105     | 743.0                     | 123.8 | 6.19     | 1.03    | 2166.9  |
| 2-13-76  | 2.325       | 4.3                   | 36      | 6     | 0.2      | 0.07    | 110     | 698.5                     | 116.4 | 3.88     | 1.35    | 2134.3  |
| 3- 5-76  | 13.186      | 4.4                   | 14      | 8     | 0.2      | 0.05    | 115     | 1540.6                    | 880.3 | 22.01    | 5.50    | 12654.6 |
| 4- 6-76  | 6.018       | 4.4                   | 26      | 2     | 0.1      | 0.1     | 54      | 1305.7                    | 100.4 | 5.02     | 5.02    | 2711.9  |
| 5-13-76  | 4.824       | 4.3                   | 20      | 0     | 0.1      | 0.1     | 95      | 805.1                     | 0     | 4.03     | 4.03    | 3824.4  |
| 6-16-76  | 3.219       | 3.8                   | 48      | 0     | 0.3      | 0.15    | 83      | 1289.4                    | 0     | 8.06     | 4.03    | 2229.6  |
| Average  | 3.889       | 4.1                   | 67.7    | 2     | 0.70     | 0.42    | 137     | 1165.1                    | 122.7 | 13.16    | 8.53    | 3480.9  |

Sta. C13-2

Location A.M.D. Source - Mine Drift, "B" Vein, Young &amp; VanOrder Mine

Elevation 1693

| Date     | Flow M.G.D. | Water Analysis - mg/1 |         |       |          |         |         | Daily Discharge - lbs/day |       |          |         |         |
|----------|-------------|-----------------------|---------|-------|----------|---------|---------|---------------------------|-------|----------|---------|---------|
|          |             | pH                    | Acidity | Alky. | Total Fe | Ferrous | Sulfate | Acidity                   | Alky. | Total Fe | Ferrous | Sulfate |
| 7- 1-75  | 0.036       | 3.0                   | 2200    | 0     | 16.0     | -       | 1580    | 668                       | 0     | 4.86     | -       | 480     |
| 8- 5-75  | 0.036       | 3.0                   | 1500    | 0     | 22.2     | -       | 2112    | 451                       | 0     | 6.67     | -       | 634     |
| 9-18-75  | 0.096       | 3.3                   | 994     | 0     | 50       | 4.25    | 1675    | 796                       | 0     | 40.06    | 3.40    | 1342    |
| 10- 7-75 | 0.103       | 3.5                   | 136     | 0     | 2.69     | 0.9     | 500     | 147.5                     | 0     | 2.92     | 0.98    | 542.4   |
| 11- 5-75 | 0.058       | 3.0                   | 820     | 0     | 17.5     | 4.0     | 1750    | 396.9                     | 0     | 8.47     | 1.94    | 847.0   |
| 12- 6-75 | 0.036       | 3.2                   | 628     | 0     | 23.0     | 0.3     | 550     | 188.7                     | 0     | 6.91     | 0.09    | 165.2   |
| 1- 8-76  | 0.079       | 3.1                   | 860     | 0     | 13.5     | 3.0     | 2300    | 567.0                     | 0     | 8.90     | 1.98    | 1516.3  |
| 2-13-76  | 0.054       | 3.2                   | 640     | 0     | 2.1      | 0.5     | 13750   | 288.4                     | 0     | 0.94     | 0.22    | 6196.3  |
| 3- 3-76  | 0.052       | 3.5                   | 198     | 0     | 9.3      | 8.0     | 600     | 85.9                      | 0     | 4.04     | 3.47    | 260.4   |
| 4-6-76   | 0.099       | 3.4                   | 450     | 0     | 7.8      | 2.85    | 1125    | 371.8                     | 0     | 6.44     | 2.35    | 929.4   |
| 5-11-76  | 0.037       | 3.1                   | 720     | 0     | 19.2     | 11.8    | 1500    | 222.3                     | 0     | 5.93     | 3.64    | 463.2   |
| 6-15-76  | 0.094       | 3.2                   | 210     | 0     | 2.2      | 1.4     | 500     | 164.7                     | 0     | 1.73     | 1.10    | 392.2   |
| Average  | 0.065       | 3.2                   | 779.7   | 0     | 15.46    | 3.70    | 2328    | 362.4                     | 0     | 8.16     | 1.92    | 1147.4  |

Sta. C-13-3

Location A.M.D. Source - Mine Drift, "B" Vein, Birchstill

Elevation 1685

| Date     | Flow M.G.D. | Water Analysis - mg/1 |         |       |          |         |         | Daily Discharge - lbs/day |       |          |         |         |
|----------|-------------|-----------------------|---------|-------|----------|---------|---------|---------------------------|-------|----------|---------|---------|
|          |             | pH                    | Acidity | Alky. | Total Fe | Ferrous | Sulfate | Acidity                   | Alky. | Total Fe | Ferrous | Sulfate |
| 7- 1-75  | 0.016       | 3.3                   | 700     | 0     | 0.72     | -       | 202     | 96                        | 0     | 0.10     | -       | 28      |
| 8- 5-75  | 0.022       | 3.3                   | 200     | 0     | 3.35     | -       | 352     | 37                        | 0     | 0.62     | -       | 65      |
| 9-18-75  | 0.019       | 3.6                   | 77      | 0     | 30       | 2.5     | 195     | 12                        | 0     | 4.76     | 0.40    | 31      |
| 10- 7-75 | 0.017       | 3.4                   | 72      | 0     | 5.5      | 1.6     | 260     | 10.2                      | 0     | 0.78     | 0.23    | 36.9    |
| 11- 5-75 | 0.014       | 3.4                   | 80      | 0     | 5.6      | 2.4     | 330     | 9.3                       | 0     | 0.65     | 0.28    | 38.6    |
| 12- 6-75 | 0.015       | 3.5                   | 60      | 0     | 5.6      | 3.1     | 550     | 7.5                       | 0     | 0.70     | 0.39    | 68.8    |
| 1- 8-76  | 0.031       | 3.5                   | 60      | 0     | 5.2      | 3.2     | 275     | 15.5                      | 0     | 1.34     | 0.83    | 71.1    |
| 2-13-76  | 0.015       | 3.9                   | 44      | 0     | 0.4      | 0       | 250     | 5.5                       | 0     | 0.05     | 0       | 31.3    |
| 3- 3-76  | 0.036       | 2.3                   | 1936    | 0     | 5.2      | 4.6     | 375     | 581.6                     | 0     | 1.56     | 1.38    | 112.7   |
| 4- 6-76  | 0.020       | 3.7                   | 54      | 0     | 2.9      | 1.9     | 190     | 9.0                       | 0     | 0.48     | 0.32    | 31.7    |
| 5-11-76  | 0.019       | 3.4                   | 56      | 0     | 2.9      | 1.32    | 205     | 8.9                       | 0     | 0.46     | 0.21    | 32.5    |
| 6-15-76  | 0.032       | 3.0                   | 64      | 0     | 2.7      | 1.7     | 155     | 17.1                      | 0     | 0.72     | 0.45    | 41.4    |
| Average  | 0.021       | 3.4                   | 283.6   | 0     | 5.84     | 2.23    | 278     | 67.5                      | 0     | 1.02     | 0.45    | 49.1    |

## ACKNOWLEDGMENTS

Boyer Kantz and Associates acknowledge the information and assistance which was provided by the following persons during the Babb Creek Mine Drainage Abatement Study:

George Augustine, Arnot, Pa.  
Charles A. Broughton, Morris, Pa.  
Stuart Coumbe, Wellsboro, Pa.  
Stanley Gublo, Arnot, Pa.  
Stanley Janeski, Antrim, Pa.  
Clarence Kilpatrick, Nauvoo, Pa.  
Edward Signor, Arnot, Pa.  
Carl VanOrder, Antrim, Pa.  
Richard Wilcox, Antrim, Pa.  
Francis Young, Antrim, Pa.

The cooperation of Edward Bates, Alfred Dalburto and other staff from The Bureau of Mine Area Restoration, Pennsylvania Department of Environmental Resources, was basic to the outcome of the project and very much appreciated.

Special credit must be accorded to Edwin F. Koppe, Consulting Geologist, Harrisburg, Pa., for the geological evaluation of the study area as well as for assistance in the formulation of the final abatement plans.