

12-8-2009

Ex. 279-US-429

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Stream: Sycan River  
 Site: SY-4 (Sycan River above Torrent Springs)

Date: 5/15/93

Habitat: Riffle

Flow: High

| (1) Level Loop Survey (BM & HP) |         |         |         |           |         |           |
|---------------------------------|---------|---------|---------|-----------|---------|-----------|
| BM/HP (ft)                      | BS (ft) | HI (ft) | FS (ft) | Elev (ft) | FS (ft) | Elev (ft) |
| BM                              | 3.91    | 103.91  |         |           |         |           |
| HP1                             |         |         | 4.12    | 99.79     |         |           |
| HP2                             |         |         | 4.62    | 99.29     |         |           |
| HP3                             |         |         | 4.38    | 99.53     |         |           |
| TP                              |         |         |         |           |         |           |
| HP3                             | 4.14    | 103.47  |         |           |         |           |
| HP2                             |         |         | 4.20    | 99.27     |         |           |
| HP1                             |         |         | 3.67    | 99.80     |         |           |
| BM                              |         |         | 3.47    | 100.00    |         |           |

Comment: Run & RF level loops were surveyed together. See field notes for details.

Date: 6/26/93

Habitat: Riffle

Flow: Mid

| (1) Level Loop Survey |         |         |         |           |         |           |
|-----------------------|---------|---------|---------|-----------|---------|-----------|
| BM/HP (ft)            | BS (ft) | HI (ft) | FS (ft) | Elev (ft) | FS (ft) | Elev (ft) |
| BM                    | 6.45    | 106.45  |         |           |         |           |
| HP1                   |         |         | 6.66    | 99.79     |         |           |
| HP2                   |         |         | 7.18    | 99.27     |         |           |
| HP3                   |         |         | 6.93    | 99.52     |         |           |
| TP                    |         |         |         |           |         |           |
| HP3                   | 6.91    | 106.43  |         |           |         |           |
| HP2                   |         |         | 7.16    | 99.27     |         |           |
| HP1                   |         |         | 6.64    | 99.79     |         |           |
| BM                    |         |         | 6.43    | 100.00    |         |           |

Comment:

Date: 9/14/93

Habitat: Riffle

Flow: Low

| (1) Level Loop Survey |         |         |         |           |         |           |
|-----------------------|---------|---------|---------|-----------|---------|-----------|
| BM/HP (ft)            | BS (ft) | HI (ft) | FS (ft) | Elev (ft) | FS (ft) | Elev (ft) |
| BM                    | 5.26    | 105.26  |         |           |         |           |
| HP3                   |         |         | 5.74    | 99.52     |         |           |
| HP2                   |         |         | 6.00    | 99.26     |         |           |
| HP1                   |         |         | 5.47    | 99.79     |         |           |
| TP                    |         |         |         |           |         |           |
| HP1                   | 4.83    | 104.62  |         |           |         |           |
| HP2                   |         |         | 5.35    | 99.27     |         |           |
| HP3                   |         |         | 5.09    | 99.53     |         |           |
| BM                    |         |         | 4.62    | 100.00    |         |           |

Comment:

(2) Water Surface Elevation (WSE) Survey

|     | L/R WSE | Sta (ft) | HI (ft) | FS (ft) | Rod (ft) | WSE (ft) | Ave WSE (ft) | Q (cfs) |
|-----|---------|----------|---------|---------|----------|----------|--------------|---------|
|     |         |          |         |         |          |          |              |         |
| TR1 | LWE     | 11.4     | 103.47  | 6.52    | 0.00     | 96.95    | 96.98        | 653.7   |
|     | RWE     |          |         | 6.46    | 0.00     | 97.01    |              |         |
| TR2 | LWE     | 22.8     | 103.47  | 6.52    | 0.00     | 96.95    | 96.99        |         |
|     | RWE     |          |         | 6.45    | 0.00     | 97.02    |              |         |
| TR3 | LWE     | 39.9     | 103.47  | 6.50    | 0.00     | 96.97    | 96.99        |         |
|     | RWE     |          |         | 6.46    | 0.00     | 97.01    |              |         |
|     |         |          |         |         |          |          | Ave Q=       | 653.7   |

Note: WSE slope = 0.04%

(2) Water Surface Elevation (WSE) Survey

|     | L/R WSE | Sta (ft) | HI (ft) | FS (ft) | Rod (ft) | WSE (ft) | Ave WSE (ft)          | Q (cfs) |
|-----|---------|----------|---------|---------|----------|----------|-----------------------|---------|
|     |         |          |         |         |          |          |                       |         |
| TR1 | LWE     | 11.4     | 106.43  | 11.34   | 0.00     | 95.09    | 95.05                 | 52.7    |
|     | RWE     |          |         | 11.42   | 0.00     | 95.01    |                       |         |
| TR2 | LWE     | 22.8     | 106.43  | 11.26   | 0.00     | 95.17    | 95.23                 | 46.3    |
|     | RWE     |          |         | 11.15   | 0.00     | 95.28    |                       |         |
| TR3 | LWE     | 39.9     | 106.43  | 10.71   | 0.00     | 95.72    | 95.72                 | 44.7    |
|     | RWE     |          |         | 10.71   | 0.00     | 95.72    |                       |         |
|     |         |          |         |         |          |          | Ave Q (Riffle)=       | 47.9    |
|     |         |          |         |         |          |          | Ave Q (Run)=          | 51.3    |
|     |         |          |         |         |          |          | Ave Q (Run & Riffle)= | 49.6    |

Note: WSE slope = 2.35%

(2) Water Surface Elevation (WSE) Survey

|     | L/R WSE | Sta (ft) | HI (ft) | FS (ft) | Rod (ft) | WSE (ft) | Ave WSE (ft)          | Q (cfs) |
|-----|---------|----------|---------|---------|----------|----------|-----------------------|---------|
|     |         |          |         |         |          |          |                       |         |
| TR1 | LWE     | 11.4     | 104.62  | 10.45   | 0.00     | 94.17    | 94.17                 | 3.3     |
|     | RWE     |          |         | 10.46   | 0.00     | 94.16    |                       |         |
| TR2 | LWE     | 22.8     | 104.62  | 9.94    | 0.00     | 94.68    | 94.86                 | 4.1     |
|     | RWE     |          |         | 9.58    | 0.00     | 95.04    |                       |         |
| TR3 | LWE     | 39.9     | 104.62  | 9.42    | 0.00     | 95.20    | 95.25                 | 3.1     |
|     | RWE     |          |         | 9.32    | 0.00     | 95.30    |                       |         |
|     |         |          |         |         |          |          | Ave Q (Riffle)=       | 3.5     |
|     |         |          |         |         |          |          | Ave Q (Run)=          | 3.0     |
|     |         |          |         |         |          |          | Ave Q (Run & Riffle)= | 3.3     |

Note: WSE slope = 3.81%

Stream: Sycan River  
 Site: SY-4  
 Transect: 1  
 Habitat: Riffle

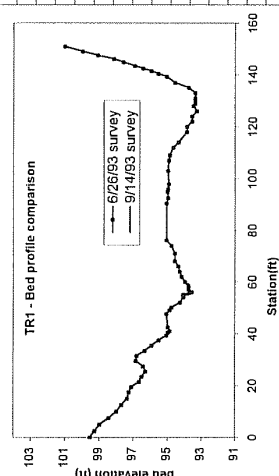
| Survey Date | HI (ft) | Q (cfs) |
|-------------|---------|---------|
| 5/15/93     | 103.47  | 653.7   |
| 6/26/93     | 106.43  | 52.7    |
| 9/14/93     | 104.62  | 3.3     |

| Sta (ft)  | FS (ft) | Ground (ft) | Depth (ft) | Vel (ft/s)           |                      | q (cfs) | substrate |
|-----------|---------|-------------|------------|----------------------|----------------------|---------|-----------|
|           |         |             |            | V <sub>0.2,0.6</sub> | V <sub>0.8</sub> Ave |         |           |
| 13.1      |         |             | 0.0        | 0.00                 |                      | 0.00    | 0.00      |
| 15.3      |         |             | 0.35       | 0.29                 |                      | 0.29    | 0.25      |
| 18        |         |             | 0.50       | 0.29                 |                      | 0.29    | 0.54      |
| 23        |         |             | 1.00       | 0.84                 |                      | 0.84    | 4.20      |
| 28        |         |             | 0.90       | 1.53                 |                      | 1.53    | 6.89      |
| 33        |         |             | 2.40       | 2.08                 |                      | 2.08    | 24.96     |
| 38        |         |             | 2.90       | 2.25                 |                      | 2.22    | 17.91     |
| 43        |         |             | 4.30       | 2.06                 |                      | 0.91    | 31.93     |
| 48        |         |             | 5.00       | 1.66                 |                      | 1.95    | 1.81      |
| 53        |         |             | 5.00       | 3.10                 |                      | 2.08    | 2.59      |
| 58        |         |             | 4.70       | 3.12                 |                      | 1.82    | 2.47      |
| 63        |         |             | 4.50       | 3.05                 |                      | 2.34    | 2.70      |
| 68        |         |             | 4.10       | 3.44                 |                      | 2.75    | 3.10      |
| 73        |         |             | 3.70       | 3.53                 |                      | 2.88    | 3.21      |
| 78        |         |             | 4.10       | 3.37                 |                      | 2.77    | 3.07      |
| 83        |         |             | 4.30       | 3.05                 |                      | 2.43    | 2.74      |
| 88        |         |             | 4.00       | 3.23                 |                      | 1.21    | 2.22      |
| 93        |         |             | 2.55       | 3.05                 |                      | 2.14    | 2.60      |
| 96        |         |             | 2.30       | 1.85                 |                      | 1.85    | 10.64     |
| 98        |         |             | 1.75       | 1.16                 |                      | 1.16    | 5.08      |
| 101       |         |             | 1.55       | 0.53                 |                      | 0.53    | 2.46      |
| 104       |         |             | 1.65       | 0.97                 |                      | 0.97    | 4.00      |
| 106       |         |             | 1.00       | 0.41                 |                      | 0.41    | 0.82      |
| 108       |         |             | 1.10       | 0.00                 |                      | 0.00    | 0.00      |
| LWE 109.0 |         |             | 0.00       | 0.00                 |                      | 0.00    | 0.00      |

This is not profile. This is the Q-transsect for both Run and Riffle habitats.

| Sta (ft)  | FS (ft) | Ground (ft) | Depth (ft) | Vel (ft/s)           |                      | q (cfs) | substrate |
|-----------|---------|-------------|------------|----------------------|----------------------|---------|-----------|
|           |         |             |            | V <sub>0.2,0.6</sub> | V <sub>0.8</sub> Ave |         |           |
| LWP 0.0   | 6.90    | 99.53       |            |                      |                      |         | 6.6       |
| 2.5       | 7.17    | 99.26       |            |                      |                      |         | 6.6       |
| 5.0       | 7.46    | 98.97       |            |                      |                      |         | 6.6       |
| 7.5       | 7.99    | 98.44       |            |                      |                      |         | 6.6       |
| 10.0      | 8.45    | 97.98       |            |                      |                      |         | 6.6       |
| 12.5      | 8.75    | 97.68       |            |                      |                      |         | 6.6       |
| 15.0      | 9.08    | 97.35       |            |                      |                      |         | 6.6       |
| 17.5      | 9.18    | 97.25       |            |                      |                      |         | 6.6       |
| 19.5      | 9.34    | 97.09       |            |                      |                      |         | 6.6       |
| 21.5      | 9.78    | 96.65       |            |                      |                      |         | 6.6       |
| 23.5      | 9.93    | 96.50       |            |                      |                      |         | 6.6       |
| 25.5      | 10.15   | 96.28       |            |                      |                      |         | 6.6       |
| 27.5      | 10.03   | 96.40       |            |                      |                      |         | 1.1       |
| 29.5      | 9.60    | 96.83       |            |                      |                      |         | 1.1       |
| 31.5      | 9.65    | 96.78       |            |                      |                      |         | 1.1       |
| 33.5      | 10.10   | 96.33       |            |                      |                      |         | 1.1       |
| 35.5      | 10.52   | 95.91       |            |                      |                      |         | 1.1       |
| 37.5      | 10.94   | 95.49       |            |                      |                      |         | 1.1       |
| LWE 39.3  |         | 95.05       | 0.00       |                      |                      | 0.00    | 0.00      |
| 40.5      |         | 94.95       | 0.10       |                      |                      | 0.00    | 0.00      |
| 41.0      |         | 94.85       | 0.20       |                      |                      | 0.00    | 0.00      |
| 42.5      |         | 94.95       | 0.10       |                      |                      | 0.00    | 0.00      |
| LWE 47.6  |         | 95.05       | 0.00       |                      |                      | 0.00    | 0.00      |
| 49.0      |         | 94.85       | 0.20       |                      |                      | -0.01   | 0.00      |
| 50.0      |         | 94.75       | 0.30       |                      |                      | 0.18    | 0.08      |
| 52.0      |         | 94.25       | 0.80       |                      |                      | 0.50    | 0.80      |
| 54.0      |         | 94.05       | 1.00       |                      |                      | 0.86    | 1.29      |
| 55.0      |         | 94.05       | 1.00       |                      |                      | 4.54    | 4.54      |
| 56.0      |         | 93.55       | 1.50       |                      |                      | 4.36    | 6.54      |
| 57.0      |         | 93.75       | 1.30       |                      |                      | 3.96    | 5.15      |
| 58.0      |         | 93.75       | 1.30       |                      |                      | 3.38    | 6.59      |
| 60.0      |         | 93.95       | 1.10       |                      |                      | 3.00    | 6.60      |
| 62.0      |         | 94.15       | 0.90       |                      |                      | 0.83    | 1.49      |
| 64.0      |         | 94.25       | 0.80       |                      |                      | 1.31    | 2.10      |
| 66.0      |         | 94.35       | 0.70       |                      |                      | 0.30    | 0.42      |
| 68.0      |         | 94.55       | 0.50       |                      |                      | -0.01   | -0.01     |
| 71.0      |         | 94.55       | 0.50       |                      |                      | -0.06   | -0.09     |
| 74.0      |         | 94.75       | 0.30       |                      |                      | -0.02   | -0.02     |
| LWE 76.2  |         | 95.05       | 0.00       |                      |                      | 0.00    | 0.00      |
| LWE 90.5  |         | 95.05       | 0.00       |                      |                      | 0.00    | 0.00      |
| 92.5      |         | 94.95       | 0.10       |                      |                      | 0.15    | 0.02      |
| 95.0      |         | 95.00       | 0.05       |                      |                      | 0.63    | 0.06      |
| 96.0      |         | 94.95       | 0.10       |                      |                      | 0.65    | 0.34      |
| 98.0      |         | 94.90       | 0.15       |                      |                      | 0.85    | 0.38      |
| 103.0     |         | 94.95       | 0.10       |                      |                      | 0.96    | 0.43      |
| 107.0     |         | 94.90       | 0.15       |                      |                      | 0.96    | 0.43      |
| 109.0     |         | 94.85       | 0.20       |                      |                      | 0.01    | 0.01      |
| 112.0     |         | 94.65       | 0.40       |                      |                      | 0.03    | 0.03      |
| 114.0     |         | 94.35       | 0.70       |                      |                      | 0.02    | 0.04      |
| 118.0     |         | 93.85       | 1.20       |                      |                      | 0.04    | 0.14      |
| 120.0     |         | 93.85       | 1.30       |                      |                      | 0.26    | 0.62      |
| 122.0     |         | 93.55       | 1.50       |                      |                      | 0.25    | 0.75      |
| 124.0     |         | 93.55       | 1.50       |                      |                      | 0.87    | 2.61      |
| 126.0     |         | 93.25       | 1.80       |                      |                      | 0.92    | 3.31      |
| 128.0     |         | 93.45       | 1.60       |                      |                      | 0.21    | 0.50      |
| 129.0     |         | 93.35       | 1.70       |                      |                      | 0.84    | 1.43      |
| 130.0     |         | 93.35       | 1.70       |                      |                      | 2.72    | 4.62      |
| 131.0     |         | 93.35       | 1.70       |                      |                      | 0.84    | 2.14      |
| 133.0     |         | 93.35       | 1.70       |                      |                      | -0.09   | -0.31     |
| 135.0     |         | 93.75       | 1.30       |                      |                      | -0.01   | -0.03     |
| 137.0     |         | 94.55       | 0.50       |                      |                      | 0.05    | 0.05      |
| LWE 139.3 |         | 95.05       | 0.00       |                      |                      | 0.00    | 0.00      |
| 140.5     |         | 10.90       | 95.33      |                      |                      |         | 1.1       |
| 141.5     |         | 10.49       | 95.94      |                      |                      |         | 1.1       |
| 142.5     |         | 10.00       | 96.43      |                      |                      |         | 1.1       |
| 143.5     |         | 9.51        | 96.92      |                      |                      |         | 1.1       |
| 145.0     |         | 8.84        | 97.59      |                      |                      |         | 1.1       |

| Sta (ft) | FS (ft) | Ground (ft) | Depth (ft) | Vel (ft/s)           |                      | q (cfs) | substrate |
|----------|---------|-------------|------------|----------------------|----------------------|---------|-----------|
|          |         |             |            | V <sub>0.2,0.6</sub> | V <sub>0.8</sub> Ave |         |           |
| LWE 54.5 |         | 94.17       | 0.00       |                      |                      | 0.00    | 0.00      |
| 55.0     |         | 93.72       | 0.43       |                      |                      | 0.58    | 0.13      |
| 55.5     |         | 93.57       | 0.60       |                      |                      | 2.48    | 0.74      |
| 56.0     |         | 93.57       | 0.60       |                      |                      | 2.17    | 0.65      |
| 56.5     |         | 93.77       | 0.40       |                      |                      | 2.28    | 0.46      |
| 57.0     |         | 93.77       | 0.40       |                      |                      | 2.57    | 0.51      |
| 57.5     |         | 93.77       | 0.40       |                      |                      | 1.22    | 0.24      |
| 58.0     |         | 93.67       | 0.50       |                      |                      | -0.14   | -0.04     |
| 58.5     |         | 93.67       | 0.50       |                      |                      | -0.08   | -0.02     |
| 59.0     |         | 93.72       | 0.43       |                      |                      | 0.62    | 0.14      |
| 59.5     |         | 93.92       | 0.23       |                      |                      | 2.32    | 0.29      |
| 60.0     |         | 93.92       | 0.23       |                      |                      | 1.61    | 0.20      |
| 60.5     |         | 93.97       | 0.20       |                      |                      | 0.21    | 0.03      |
| 61.5     |         | 94.17       | 0.00       |                      |                      | 0.00    | 0.00      |









Sycane River SY\_4 06/26/93

Riffle MJD TRANSECT 1

IOC 1101100100001000101000

QARD 3.3

QARD 5.0

QARD 8.0

QARD 12.0

QARD 20.0

QARD 30.0

QARD 40.0

QARD 49.6

QARD 60.0

QARD 70.0

QARD 80.0

QARD 90.0

QARD 100.0

QARD 110.0

QARD 120.0

QARD 130.0

QARD 140.0

QARD 150.0

QARD 160.0

QARD 170.0

QARD 180.0

QARD 200.0

QARD 220.0

QARD 250.0

QARD 300.0

QARD 350.0

QARD 400.0

QARD 500.0

QARD 600.0

QARD 653.7

XSEC1000.0 0.00 1.0 93.25 0.0235

1000.0 0.0 99.5 2.5 99.3 5.0 99.0 7.5 98.4 10.0 98.0 12.5 97.7

1000.0 15.0 97.4 17.5 97.3 19.5 97.1 21.5 96.7 23.5 96.5 25.5 96.3

1000.0 27.5 96.4 29.5 96.8 31.5 96.8 33.5 96.3 35.5 95.9 37.5 95.5

1000.0 39.3 95.1 40.5 95.0 41.0 94.9 42.5 95.0 47.6 95.1 49.0 94.9

1000.0 50.0 94.8 52.0 94.3 54.0 94.1 55.0 94.1 56.0 93.6 57.0 93.8

1000.0 58.0 93.8 60.0 94.0 62.0 94.2 64.0 94.3 66.0 94.4 68.0 94.6

1000.0 71.0 94.6 74.0 94.8 76.2 95.1 90.5 95.1 92.5 95.0 95.0 95.0

1000.0 96.0 95.0 98.0 94.9103.0 95.0107.0 94.9109.0 94.9112.0 94.7

1000.0114.0 94.4118.0 93.9120.0 93.9122.0 93.6124.0 93.6126.0 93.3

1000.0128.0 93.5129.0 93.4130.0 93.4131.0 93.4133.0 93.4135.0 93.8

1000.0137.0 94.6139.3 95.1140.5 95.5141.5 95.9142.5 96.4143.5 96.9

1000.0145.0 97.6146.2 98.2147.6 99.1149.0100.0151.0101.0

NS 1000.0 6.6 6.6 6.6 6.6 6.6 6.6 6.6

NS 1000.0 6.6 6.6 6.6 6.6 6.6 6.6 6.6

NS 1000.0 1.1 1.1 1.1 1.1 1.1 1.1 1.1

NS 1000.0 1.1 9.9 9.9 1.1 0.2 1.1 0.2 9.9

NS 1000.0 0.25 9.9 0.16 9.9 0.1 5.5 .065 5.5 .072 5.5 .072 5.5

NS 1000.0 5.5 5.5 5.5 5.5 5.5 5.5 5.5

NS 1000.0 0.3 5.5 0.15 5.5 0.15 5.5 0.15 6.6 0.12 6.6 0.06 6.6

NS 1000.0 6.6 0.05 6.6 0.05 6.6 9.9 0.55 9.9 0.55 9.9

NS 1000.0 0.55 9.9 0.55 9.9 0.55 6.6 0.55 6.6 6.6 6.6

NS 1000.0 0.4 6.6 6.6 0.15 6.6 6.6 0.3 9.9 0.4 9.9

NS 1000.0 0.5 9.9 1.1 1.1 1.1 1.1 1.1 1.1

NS 1000.0 1.1 1.1 1.1 1.1 1.1 1.1 1.1

WSL 1000.0 94.16 94.24 94.34 94.43 94.53 94.64

WSL 1000.0 94.75 95.05 95.19 95.25 95.30 95.35

WSL 1000.0 95.40 95.45 95.49 95.53 95.58 95.61

WSL 1000.0 95.65 95.69 95.73 95.80 95.87 95.96

WSL 1000.0 96.11 96.24 96.39 96.65 96.87 96.98

CAL11000.0 95.05 49.6

VEL11000.0

VEL11000.0 0.00 0.00 0.00 0.00 0.00 0.00-0.01

VEL11000.0 0.18 0.50 0.86 4.54 4.36 3.96 3.38 3.00 0.83 1.31 0.30-0.01

VEL11000.0-0.06-0.02 0.00 0.00 0.15 0.63 0.65 0.85 0.96 0.01 0.03

VEL11000.0 0.02 0.04 0.26 0.25 0.87 0.92 0.21 0.84 2.72 0.84-0.09-0.01

VEL11000.0 0.05 0.00

CAL21000.0 94.17 3.3

VEL21000.0

VEL21000.0

VEL21000.0

VEL21000.0

VEL21000.0

VEL21000.0

VEL21000.0

CAL31000.0 96.98 653.7

VEL31000.0

VEL31000.0

VEL31000.0

VEL31000.0

VEL31000.0

VEL31000.0

VEL31000.0

VEL31000.0

ENDJ

Riffle MID TRANSECT 2  
IOC 1101100100001000101000  
QARD 3.3  
QARD 5.0  
QARD 8.0  
QARD 12.0  
QARD 20.0  
QARD 30.0  
QARD 40.0  
QARD 49.6  
QARD 60.0  
QARD 70.0  
QARD 80.0  
QARD 90.0  
QARD 100.0  
QARD 110.0  
QARD 120.0  
QARD 130.0  
QARD 140.0  
QARD 150.0  
QARD 160.0  
QARD 170.0  
QARD 180.0  
QARD 200.0  
QARD 220.0  
QARD 250.0  
QARD 300.0  
QARD 350.0  
QARD 400.0  
QARD 500.0  
QARD 600.0  
QARD 653.7  
XSEC1000.0 0.00 1.0 94.03 0.0235  
1000.0 0.0 99.2 3.0 98.9 6.0 98.6 9.0 98.4 12.0 97.7 15.0 97.6  
1000.0 17.6 97.0 19.3 96.9 20.3 97.1 20.6 97.6 22.0 97.6 24.0 97.6  
1000.0 25.5 97.3 26.5 97.0 26.9 96.3 28.1 95.8 28.5 95.2 29.5 94.9  
1000.0 30.5 94.7 31.5 94.8 32.9 95.1 40.5 95.2 41.0 95.0 42.0 94.9  
1000.0 43.0 94.8 44.0 94.9 46.0 94.9 48.0 94.7 49.0 94.7 50.0 94.7  
1000.0 52.0 94.0 53.0 94.2 56.0 94.4 59.0 94.6 62.0 94.8 65.0 94.7  
1000.0 68.0 94.8 71.0 94.8 74.0 94.7 77.0 94.9 82.0 95.0 87.0 95.1  
1000.0 91.0 95.1 94.0 95.0 97.0 94.9100.0 94.9103.0 95.0106.0 94.9  
1000.0109.0 94.8112.0 94.8115.0 94.7118.0 94.5121.0 94.3122.0 94.1  
1000.0123.0 94.3124.6 95.2125.3 95.7126.5 96.2127.5 96.5129.0 96.9  
1000.0131.0 97.6132.0 97.8132.3 99.5135.6100.1136.2 99.2138.1100.1  
1000.0140.3100.1142.1102.4  
NS 1000.0 6.7 6.7 6.7 6.7 6.7 6.7  
NS 1000.0 6.7 6.7 6.7 1.1 1.1 1.1  
NS 1000.0 1.1 1.1 1.1 1.1 1.1 1.1  
NS 1000.0 1.00 9.9 1.00 9.9 1.00 9.9 0.30 9.9 0.3 9.9 9.9  
NS 1000.0 9.9 0.60 9.9 0.60 9.9 0.5 9.9 9.9 9.9  
NS 1000.0 0.10 6.6 0.10 6.6 6.6 6.6 6.6 6.6  
NS 1000.0 0.45 9.9 9.9 9.9 9.9 0.25 6.6 6.6  
NS 1000.0 6.6 6.6 6.6 6.6 6.6 0.30 6.6 6.6  
NS 1000.0 0.35 6.6 6.6 6.6 9.9 9.9 0.09 9.9  
NS 1000.0 0.080 9.9 1.1 1.1 1.1 1.1 1.1  
NS 1000.0 7.7 7.7 7.7 7.7 7.7 7.7  
NS 1000.0 3.3 3.3  
WSL 1000.0 94.86 94.87 94.91 94.92 95.02 95.07  
WSL 1000.0 95.13 95.23 95.33 95.39 95.44 95.50  
WSL 1000.0 95.54 95.59 95.63 95.67 95.72 95.75  
WSL 1000.0 95.79 95.82 95.86 95.93 95.99 96.07  
WSL 1000.0 96.21 96.33 96.46 96.69 96.89 96.99  
CAL11000.0 95.23 49.6  
VEL11000.0  
VEL11000.0 0.00 0.01 0.01 0.01 0.01 0.01-0.01 0.85  
VEL11000.0 0.61-0.01 0.03 2.20 1.51 1.61 3.95 3.48 1.67 0.66 0.78 0.35  
VEL11000.0 0.19 1.45 0.75 0.36 0.03 0.82 0.72 0.77 0.59 0.62 0.17 0.42  
VEL11000.0 0.11 0.60 0.40 1.10 1.93 3.15 3.56 0.00  
VEL11000.0  
CAL21000.0 94.86 3.3  
VEL21000.0  
VEL21000.0  
VEL21000.0  
VEL21000.0  
VEL21000.0  
VEL21000.0  
CAL31000.0 96.99 653.7  
VEL31000.0  
VEL31000.0  
VEL31000.0  
VEL31000.0  
VEL31000.0  
ENDJ



Sycane River SY\_4 06/26/93

|        |                              |           |            |       |           |       |       |       |      |       |      |       |      |
|--------|------------------------------|-----------|------------|-------|-----------|-------|-------|-------|------|-------|------|-------|------|
| Riffle | MID                          |           | TRANSECT 3 |       |           |       |       |       |      |       |      |       |      |
| IOC    | 1101100100001000101000       |           |            |       |           |       |       |       |      |       |      |       |      |
| QARD   | 3.3                          |           |            |       |           |       |       |       |      |       |      |       |      |
| QARD   | 5.0                          |           |            |       |           |       |       |       |      |       |      |       |      |
| QARD   | 8.0                          |           |            |       |           |       |       |       |      |       |      |       |      |
| QARD   | 12.0                         |           |            |       |           |       |       |       |      |       |      |       |      |
| QARD   | 20.0                         |           |            |       |           |       |       |       |      |       |      |       |      |
| QARD   | 30.0                         |           |            |       |           |       |       |       |      |       |      |       |      |
| QARD   | 40.0                         |           |            |       |           |       |       |       |      |       |      |       |      |
| QARD   | 49.6                         |           |            |       |           |       |       |       |      |       |      |       |      |
| QARD   | 60.0                         |           |            |       |           |       |       |       |      |       |      |       |      |
| QARD   | 70.0                         |           |            |       |           |       |       |       |      |       |      |       |      |
| QARD   | 80.0                         |           |            |       |           |       |       |       |      |       |      |       |      |
| QARD   | 90.0                         |           |            |       |           |       |       |       |      |       |      |       |      |
| QARD   | 100.0                        |           |            |       |           |       |       |       |      |       |      |       |      |
| QARD   | 110.0                        |           |            |       |           |       |       |       |      |       |      |       |      |
| QARD   | 120.0                        |           |            |       |           |       |       |       |      |       |      |       |      |
| QARD   | 130.0                        |           |            |       |           |       |       |       |      |       |      |       |      |
| QARD   | 140.0                        |           |            |       |           |       |       |       |      |       |      |       |      |
| QARD   | 150.0                        |           |            |       |           |       |       |       |      |       |      |       |      |
| QARD   | 160.0                        |           |            |       |           |       |       |       |      |       |      |       |      |
| QARD   | 170.0                        |           |            |       |           |       |       |       |      |       |      |       |      |
| QARD   | 180.0                        |           |            |       |           |       |       |       |      |       |      |       |      |
| QARD   | 200.0                        |           |            |       |           |       |       |       |      |       |      |       |      |
| QARD   | 220.0                        |           |            |       |           |       |       |       |      |       |      |       |      |
| QARD   | 250.0                        |           |            |       |           |       |       |       |      |       |      |       |      |
| QARD   | 300.0                        |           |            |       |           |       |       |       |      |       |      |       |      |
| QARD   | 350.0                        |           |            |       |           |       |       |       |      |       |      |       |      |
| QARD   | 400.0                        |           |            |       |           |       |       |       |      |       |      |       |      |
| QARD   | 500.0                        |           |            |       |           |       |       |       |      |       |      |       |      |
| QARD   | 600.0                        |           |            |       |           |       |       |       |      |       |      |       |      |
| QARD   | 653.7                        |           |            |       |           |       |       |       |      |       |      |       |      |
| XSEC   | 1000.0 0.00 1.0 94.62 0.0235 |           |            |       |           |       |       |       |      |       |      |       |      |
|        | 1000.0                       | 12.0      | 99.2       | 15.0  | 98.8      | 18.0  | 98.1  | 21.0  | 97.7 | 24.0  | 97.5 | 27.0  | 96.7 |
|        | 1000.0                       | 30.0      | 96.3       | 33.0  | 95.7      | 35.0  | 95.7  | 36.2  | 96.0 | 37.1  | 95.5 | 37.7  | 95.5 |
|        | 1000.0                       | 38.9      | 96.6       | 40.7  | 97.3      | 42.3  | 96.9  | 44.0  | 97.4 | 45.0  | 97.4 | 46.0  | 97.4 |
|        | 1000.0                       | 47.0      | 97.1       | 48.0  | 96.8      | 49.0  | 96.5  | 50.0  | 95.9 | 51.0  | 95.7 | 52.0  | 95.6 |
|        | 1000.0                       | 53.0      | 95.8       | 54.0  | 95.7      | 55.0  | 95.5  | 56.0  | 95.3 | 58.0  | 95.1 | 60.0  | 95.2 |
|        | 1000.0                       | 62.0      | 95.4       | 64.0  | 95.5      | 66.0  | 95.6  | 68.0  | 95.3 | 71.0  | 94.9 | 74.0  | 94.7 |
|        | 1000.0                       | 77.0      | 94.8       | 80.0  | 94.6      | 83.0  | 94.6  | 86.0  | 94.7 | 89.0  | 94.9 | 92.0  | 95.0 |
|        | 1000.0                       | 95.0      | 95.1       | 98.0  | 95.0      | 101.0 | 94.9  | 104.0 | 95.1 | 107.0 | 95.2 | 110.0 | 95.2 |
|        | 1000.0                       | 113.0     | 95.2       | 116.0 | 95.2      | 119.0 | 95.3  | 122.0 | 95.4 | 125.0 | 95.4 | 128.0 | 95.2 |
|        | 1000.0                       | 131.0     | 95.3       | 134.0 | 95.3      | 137.0 | 95.7  | 135.0 | 96.3 | 137.0 | 96.6 | 139.0 | 96.9 |
|        | 1000.0                       | 141.0     | 97.3       | 143.0 | 97.7      | 145.0 | 97.9  | 147.0 | 98.2 | 149.0 | 98.5 | 151.0 | 99.2 |
|        | 1000.0                       | 153.0     | 99.8       | 155.0 | 81.0      | 156.0 | 61.0  | 151.0 |      |       |      |       |      |
| NS     | 1000.0                       | 6.7       | 6.7        | 6.7   | 6.7       | 6.7   | 6.7   | 6.7   | 6.7  | 6.7   | 6.7  | 6.7   | 6.7  |
| NS     | 1000.0                       | 1.1       | 1.1        | 1.1   | 1.1       | 1.1   | 1.1   | 1.1   | 1.1  | 1.1   | 1.1  | 1.1   | 1.1  |
| NS     | 1000.0                       | 1.1       | 1.1        | 1.1   | 1.1       | 1.1   | 1.1   | 1.1   | 1.1  | 1.1   | 1.1  | 1.1   | 1.1  |
| NS     | 1000.0                       | 1.1       | 1.1        | 1.1   | 1.1       | 1.1   | 1.1   | 1.1   | 1.1  | 1.1   | 1.1  | 1.1   | 1.1  |
| NS     | 1000.0                       | 1.1       | 1.1        | 1.00  | 9.9       | 9.9   | 9.9   | 9.9   | 9.9  | 9.9   | 9.9  | 9.9   | 6.6  |
| NS     | 1000.0                       | 0.5       | 6.6        | 5.5   | 5.5       | 5.5   | 5.5   | 5.5   | 5.5  | 5.5   | 5.5  | 5.5   | 5.5  |
| NS     | 1000.0                       | 3.3       | 9.9        | 6.6   | 6.6       | 6.6   | 6.6   | 0.45  | 6.6  | 0.15  | 6.6  | 6.6   | 6.6  |
| NS     | 1000.0                       | 6.6       | 6.6        | 6.6   | 6.6       | 6.6   | 6.6   | 6.6   | 6.6  | 6.6   | 6.6  | 6.6   | 6.6  |
| NS     | 1000.0                       | 6.6       | 6.6        | 0.12  | 9.9       | 0.07  | 9.9   | 9.9   | 9.9  | 9.9   | 9.9  | 9.9   | 9.9  |
| NS     | 1000.0                       | 0.20      | 7.7        | 0.40  | 7.7       | 7.7   | 7.7   | 7.7   | 7.7  | 7.7   | 7.7  | 7.7   | 7.7  |
| NS     | 1000.0                       | 7.7       | 7.7        | 7.7   | 7.7       | 7.7   | 7.7   | 7.7   | 7.7  | 7.7   | 7.7  | 7.7   | 7.7  |
| NS     | 1000.0                       | 7.7       | 7.7        | 7.7   | 7.7       | 7.7   | 7.7   | 7.7   | 7.7  | 7.7   | 7.7  | 7.7   | 7.7  |
| WSL    | 1000.0                       | 95.25     | 95.26      | 95.35 | 95.43     | 95.53 | 95.61 |       |      |       |      |       |      |
| WSL    | 1000.0                       | 95.68     | 95.72      | 95.78 | 95.84     | 95.89 | 95.94 |       |      |       |      |       |      |
| WSL    | 1000.0                       | 95.98     | 96.03      | 96.07 | 96.11     | 96.14 | 96.17 |       |      |       |      |       |      |
| WSL    | 1000.0                       | 96.21     | 96.23      | 96.26 | 96.32     | 96.37 | 96.43 |       |      |       |      |       |      |
| WSL    | 1000.0                       | 96.53     | 96.61      | 96.69 | 96.82     | 96.94 | 97.00 |       |      |       |      |       |      |
| CAL    | 11000.0                      | 95.72     | 49.6       |       |           |       |       |       |      |       |      |       |      |
| VEL    | 11000.0                      |           |            |       |           |       |       |       |      |       |      |       |      |
| VEL    | 11000.0                      |           |            |       |           |       |       |       |      |       |      |       |      |
| VEL    | 11000.0                      | 0.00-0.04 | 0.14       | 0.37  | 0.12      | 0.01  | 0.18  | 0.00  | 0.43 | 1.48  | 1.30 |       |      |
| VEL    | 11000.0                      | 1.53      | 1.83       | 1.68  | 0.63-0.05 | 1.64  | 0.52  | 0.95  | 1.24 | 1.49  | 1.24 | 1.44  |      |
| VEL    | 11000.0                      | 1.13      | 1.10       | 0.81  | 2.00      | 1.25  | 1.13  | 0.11  | 0.05 | 0.00  |      |       |      |
| VEL    | 11000.0                      |           |            |       |           |       |       |       |      |       |      |       |      |
| CAL    | 21000.0                      | 95.25     | 3.3        |       |           |       |       |       |      |       |      |       |      |
| VEL    | 21000.0                      |           |            |       |           |       |       |       |      |       |      |       |      |
| VEL    | 21000.0                      |           |            |       |           |       |       |       |      |       |      |       |      |
| VEL    | 21000.0                      |           |            |       |           |       |       |       |      |       |      |       |      |
| VEL    | 21000.0                      |           |            |       |           |       |       |       |      |       |      |       |      |
| VEL    | 21000.0                      |           |            |       |           |       |       |       |      |       |      |       |      |
| VEL    | 21000.0                      |           |            |       |           |       |       |       |      |       |      |       |      |
| CAL    | 31000.0                      | 96.99     | 653.7      |       |           |       |       |       |      |       |      |       |      |
| VEL    | 31000.0                      |           |            |       |           |       |       |       |      |       |      |       |      |
| VEL    | 31000.0                      |           |            |       |           |       |       |       |      |       |      |       |      |
| VEL    | 31000.0                      |           |            |       |           |       |       |       |      |       |      |       |      |
| VEL    | 31000.0                      |           |            |       |           |       |       |       |      |       |      |       |      |
| VEL    | 31000.0                      |           |            |       |           |       |       |       |      |       |      |       |      |
| VEL    | 31000.0                      |           |            |       |           |       |       |       |      |       |      |       |      |
| VEL    | 31000.0                      |           |            |       |           |       |       |       |      |       |      |       |      |
| ENDJ   |                              |           |            |       |           |       |       |       |      |       |      |       |      |

Sycane River SY\_4 06/26/93

Riffle

MID

TRANSECT 1

IOC 01100000000000000000

- QARD 3.3
- QARD 5.0
- QARD 8.0
- QARD 12.0
- QARD 20.0
- QARD 30.0
- QARD 40.0
- QARD 49.6
- QARD 60.0
- QARD 70.0
- QARD 80.0
- QARD 90.0
- QARD 100.0
- QARD 110.0
- QARD 120.0
- QARD 130.0
- QARD 140.0
- QARD 150.0
- QARD 160.0
- QARD 170.0
- QARD 180.0
- QARD 200.0
- QARD 220.0
- QARD 250.0
- QARD 300.0
- QARD 350.0
- QARD 400.0
- QARD 500.0
- QARD 600.0
- QARD 653.7

XSEC1000.0 0.00 1.0 93.25 0.0235

|            |       |       |       |      |       |       |       |       |       |       |       |      |
|------------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|------|
| 1000.0     | 0.0   | 99.5  | 2.5   | 99.3 | 5.0   | 99.0  | 7.5   | 98.4  | 10.0  | 98.0  | 12.5  | 97.7 |
| 1000.0     | 15.0  | 97.4  | 17.5  | 97.3 | 19.5  | 97.1  | 21.5  | 96.7  | 23.5  | 96.5  | 25.5  | 96.3 |
| 1000.0     | 27.5  | 96.4  | 29.5  | 96.8 | 31.5  | 96.8  | 33.5  | 96.3  | 35.5  | 95.9  | 37.5  | 95.5 |
| 1000.0     | 39.3  | 95.1  | 40.5  | 95.0 | 41.0  | 94.9  | 42.5  | 95.0  | 47.6  | 95.1  | 49.0  | 94.9 |
| 1000.0     | 50.0  | 94.8  | 52.0  | 94.3 | 54.0  | 94.1  | 55.0  | 94.1  | 56.0  | 93.6  | 57.0  | 93.8 |
| 1000.0     | 58.0  | 93.8  | 60.0  | 94.0 | 62.0  | 94.2  | 64.0  | 94.3  | 66.0  | 94.4  | 68.0  | 94.6 |
| 1000.0     | 71.0  | 94.6  | 74.0  | 94.8 | 76.2  | 95.1  | 80.5  | 95.1  | 92.5  | 95.0  | 95.0  | 95.0 |
| 1000.0     | 96.0  | 95.0  | 98.0  | 94.9 | 103.0 | 95.0  | 107.0 | 94.9  | 109.0 | 94.9  | 112.0 | 94.7 |
| 1000.0     | 114.0 | 94.4  | 118.0 | 93.9 | 120.0 | 93.9  | 122.0 | 93.6  | 124.0 | 93.6  | 126.0 | 93.3 |
| 1000.0     | 128.0 | 93.5  | 129.0 | 93.4 | 130.0 | 93.4  | 131.0 | 93.4  | 133.0 | 93.4  | 135.0 | 93.8 |
| 1000.0     | 137.0 | 94.6  | 139.3 | 95.1 | 140.5 | 95.5  | 141.5 | 95.9  | 142.5 | 96.4  | 143.5 | 96.9 |
| 1000.0     | 145.0 | 97.6  | 146.2 | 98.2 | 147.6 | 99.1  | 149.0 | 100.0 | 151.0 | 101.0 |       |      |
| NS 1000.0  |       | 6.6   |       | 6.6  |       | 6.6   |       | 6.6   |       | 6.6   |       | 6.6  |
| NS 1000.0  |       | 6.6   |       | 6.6  |       | 6.6   |       | 6.6   |       | 6.6   |       | 6.6  |
| NS 1000.0  |       | 1.1   |       | 1.1  |       | 1.1   |       | 1.1   |       | 1.1   |       | 1.1  |
| NS 1000.0  |       | 1.1   |       | 9.9  |       | 9.9   |       | 1.1   |       | 1.1   |       | 9.9  |
| NS 1000.0  |       | 9.9   |       | 9.9  |       | 5.5   |       | 5.5   |       | 5.5   |       | 5.5  |
| NS 1000.0  |       | 5.5   |       | 5.5  |       | 5.5   |       | 5.5   |       | 5.5   |       | 5.5  |
| NS 1000.0  |       | 5.5   |       | 5.5  |       | 5.5   |       | 6.6   |       | 6.6   |       | 6.6  |
| NS 1000.0  |       | 6.6   |       | 6.6  |       | 6.6   |       | 9.9   |       | 9.9   |       | 9.9  |
| NS 1000.0  |       | 9.9   |       | 9.9  |       | 6.6   |       | 6.6   |       | 6.6   |       | 6.6  |
| NS 1000.0  |       | 6.6   |       | 6.6  |       | 6.6   |       | 6.6   |       | 9.9   |       | 9.9  |
| NS 1000.0  |       | 9.9   |       | 1.1  |       | 1.1   |       | 1.1   |       | 1.1   |       | 1.1  |
| NS 1000.0  |       | 1.1   |       | 1.1  |       | 1.1   |       | 1.1   |       | 1.1   |       | 1.1  |
| CALQ1000.0 |       | 95.05 |       | 49.6 |       | -2.50 |       |       |       |       |       |      |
| ENDJ       |       |       |       |      |       |       |       |       |       |       |       |      |

Sycane River SY\_4 06/26/93

|            |                      |      |       |        |       |      |       |            |       |       |       |      |
|------------|----------------------|------|-------|--------|-------|------|-------|------------|-------|-------|-------|------|
| Riffle     | MID                  |      |       |        |       |      |       | TRANSECT 1 |       |       |       |      |
| IOC        | 01100000000000000000 |      |       |        |       |      |       |            |       |       |       |      |
| QARD       | 3.3                  |      |       |        |       |      |       |            |       |       |       |      |
| QARD       | 5.0                  |      |       |        |       |      |       |            |       |       |       |      |
| QARD       | 8.0                  |      |       |        |       |      |       |            |       |       |       |      |
| QARD       | 12.0                 |      |       |        |       |      |       |            |       |       |       |      |
| QARD       | 20.0                 |      |       |        |       |      |       |            |       |       |       |      |
| QARD       | 30.0                 |      |       |        |       |      |       |            |       |       |       |      |
| QARD       | 40.0                 |      |       |        |       |      |       |            |       |       |       |      |
| QARD       | 49.6                 |      |       |        |       |      |       |            |       |       |       |      |
| QARD       | 60.0                 |      |       |        |       |      |       |            |       |       |       |      |
| QARD       | 70.0                 |      |       |        |       |      |       |            |       |       |       |      |
| QARD       | 80.0                 |      |       |        |       |      |       |            |       |       |       |      |
| QARD       | 90.0                 |      |       |        |       |      |       |            |       |       |       |      |
| QARD       | 100.0                |      |       |        |       |      |       |            |       |       |       |      |
| QARD       | 110.0                |      |       |        |       |      |       |            |       |       |       |      |
| QARD       | 120.0                |      |       |        |       |      |       |            |       |       |       |      |
| QARD       | 130.0                |      |       |        |       |      |       |            |       |       |       |      |
| QARD       | 140.0                |      |       |        |       |      |       |            |       |       |       |      |
| QARD       | 150.0                |      |       |        |       |      |       |            |       |       |       |      |
| QARD       | 160.0                |      |       |        |       |      |       |            |       |       |       |      |
| QARD       | 170.0                |      |       |        |       |      |       |            |       |       |       |      |
| QARD       | 180.0                |      |       |        |       |      |       |            |       |       |       |      |
| QARD       | 200.0                |      |       |        |       |      |       |            |       |       |       |      |
| QARD       | 220.0                |      |       |        |       |      |       |            |       |       |       |      |
| QARD       | 250.0                |      |       |        |       |      |       |            |       |       |       |      |
| QARD       | 300.0                |      |       |        |       |      |       |            |       |       |       |      |
| QARD       | 350.0                |      |       |        |       |      |       |            |       |       |       |      |
| QARD       | 400.0                |      |       |        |       |      |       |            |       |       |       |      |
| QARD       | 500.0                |      |       |        |       |      |       |            |       |       |       |      |
| QARD       | 600.0                |      |       |        |       |      |       |            |       |       |       |      |
| QARD       | 653.7                |      |       |        |       |      |       |            |       |       |       |      |
| XSEC1000.0 | 0.00                 | 1.0  | 93.25 | 0.0235 |       |      |       |            |       |       |       |      |
| 1000.0     | 0.0                  | 99.5 | 2.5   | 99.3   | 5.0   | 99.0 | 7.5   | 98.4       | 10.0  | 98.0  | 12.5  | 97.7 |
| 1000.0     | 15.0                 | 97.4 | 17.5  | 97.3   | 19.5  | 97.1 | 21.5  | 96.7       | 23.5  | 96.5  | 25.5  | 96.3 |
| 1000.0     | 27.5                 | 96.4 | 29.5  | 96.8   | 31.5  | 96.8 | 33.5  | 96.3       | 35.5  | 95.9  | 37.5  | 95.5 |
| 1000.0     | 39.3                 | 95.1 | 40.5  | 95.0   | 41.0  | 94.9 | 42.5  | 95.0       | 47.6  | 95.1  | 49.0  | 94.9 |
| 1000.0     | 50.0                 | 94.8 | 52.0  | 94.3   | 54.0  | 94.1 | 55.0  | 94.1       | 56.0  | 93.6  | 57.0  | 93.8 |
| 1000.0     | 58.0                 | 93.8 | 60.0  | 94.0   | 62.0  | 94.2 | 64.0  | 94.3       | 66.0  | 94.4  | 68.0  | 94.6 |
| 1000.0     | 71.0                 | 94.6 | 74.0  | 94.8   | 76.2  | 95.1 | 90.5  | 95.1       | 92.5  | 95.0  | 95.0  | 95.0 |
| 1000.0     | 96.0                 | 95.0 | 98.0  | 94.9   | 103.0 | 95.0 | 107.0 | 94.9       | 109.0 | 94.9  | 112.0 | 94.7 |
| 1000.0     | 114.0                | 94.4 | 118.0 | 93.9   | 120.0 | 93.9 | 122.0 | 93.6       | 124.0 | 93.6  | 126.0 | 93.3 |
| 1000.0     | 128.0                | 93.5 | 129.0 | 93.4   | 130.0 | 93.4 | 131.0 | 93.4       | 133.0 | 93.4  | 135.0 | 93.8 |
| 1000.0     | 137.0                | 94.6 | 139.3 | 95.1   | 140.5 | 95.5 | 141.5 | 95.9       | 142.5 | 96.4  | 143.5 | 96.9 |
| 1000.0     | 145.0                | 97.6 | 146.2 | 98.2   | 147.6 | 99.1 | 149.0 | 100.0      | 151.0 | 101.0 |       |      |
| NS 1000.0  | 6.6                  |      | 6.6   |        | 6.6   |      | 6.6   |            | 6.6   |       | 6.6   | 6.6  |
| NS 1000.0  | 6.6                  |      | 6.6   |        | 6.6   |      | 6.6   |            | 6.6   |       | 6.6   | 6.6  |
| NS 1000.0  | 1.1                  |      | 1.1   |        | 1.1   |      | 1.1   |            | 1.1   |       | 1.1   | 1.1  |
| NS 1000.0  | 1.1                  |      | 9.9   |        | 9.9   |      | 1.1   |            | 1.1   |       | 9.9   | 9.9  |
| NS 1000.0  | 9.9                  |      | 9.9   |        | 5.5   |      | 5.5   |            | 5.5   |       | 5.5   | 5.5  |
| NS 1000.0  | 5.5                  |      | 5.5   |        | 5.5   |      | 5.5   |            | 5.5   |       | 5.5   | 5.5  |
| NS 1000.0  | 5.5                  |      | 5.5   |        | 5.5   |      | 6.6   |            | 6.6   |       | 6.6   | 6.6  |
| NS 1000.0  | 6.6                  |      | 6.6   |        | 6.6   |      | 9.9   |            | 9.9   |       | 9.9   | 9.9  |
| NS 1000.0  | 9.9                  |      | 9.9   |        | 6.6   |      | 6.6   |            | 6.6   |       | 6.6   | 6.6  |
| NS 1000.0  | 6.6                  |      | 6.6   |        | 6.6   |      | 6.6   |            | 9.9   |       | 9.9   | 9.9  |
| NS 1000.0  | 9.9                  |      | 1.1   |        | 1.1   |      | 1.1   |            | 1.1   |       | 1.1   | 1.1  |
| NS 1000.0  | 1.1                  |      | 1.1   |        | 1.1   |      | 1.1   |            | 1.1   |       | 1.1   | 1.1  |
| CALQ1000.0 | 96.98                |      | 653.7 |        | -0.20 |      |       |            |       |       |       |      |
| ENDJ       |                      |      |       |        |       |      |       |            |       |       |       |      |

Sycane River SY\_4 06/26/93

| RUN  | MID   |       |   |             |
|------|-------|-------|---|-------------|
| PARD | 30    | 1.00  | 0 | 1.000       |
| QARD | 3.3   | 94.16 |   | 5.800 5.800 |
| QARD | 5.0   | 94.24 |   | 4.000 4.000 |
| QARD | 8.0   | 94.34 |   | 3.000 3.000 |
| QARD | 12.0  | 94.43 |   | 2.000 2.000 |
| QARD | 20.0  | 94.53 |   | 1.750 1.750 |
| QARD | 30.0  | 94.64 |   | 1.400 1.400 |
| QARD | 40.0  | 94.75 |   | 1.200 1.200 |
| QARD | 49.6  | 95.05 |   | 1.000 1.000 |
| QARD | 60.0  | 95.19 |   | 0.990 0.990 |
| QARD | 70.0  | 95.25 |   | 0.980 0.980 |
| QARD | 80.0  | 95.30 |   | 0.970 0.970 |
| QARD | 90.0  | 95.35 |   | 0.960 0.960 |
| QARD | 100.0 | 95.40 |   | 0.950 0.950 |
| QARD | 110.0 | 95.45 |   | 0.940 0.940 |
| QARD | 120.0 | 95.49 |   | 0.920 0.920 |
| QARD | 130.0 | 95.53 |   | 0.910 0.910 |
| QARD | 140.0 | 95.58 |   | 0.900 0.900 |
| QARD | 150.0 | 95.61 |   | 0.890 0.890 |
| QARD | 160.0 | 95.65 |   | 0.880 0.880 |
| QARD | 170.0 | 95.69 |   | 0.870 0.870 |
| QARD | 180.0 | 95.73 |   | 0.860 0.860 |
| QARD | 200.0 | 95.80 |   | 0.840 0.840 |
| QARD | 220.0 | 95.87 |   | 0.820 0.820 |
| QARD | 250.0 | 95.96 |   | 0.780 0.780 |
| QARD | 300.0 | 96.11 |   | 0.730 0.730 |
| QARD | 350.0 | 96.24 |   | 0.680 0.680 |
| QARD | 400.0 | 96.39 |   | 0.620 0.620 |
| QARD | 500.0 | 96.65 |   | 0.520 0.520 |
| QARD | 600.0 | 96.87 |   | 0.410 0.410 |
| QARD | 653.7 | 96.98 |   | 0.350 0.350 |

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|      |       |             |           |           |            |           |           |           |      |      |      |      |
|------|-------|-------------|-----------|-----------|------------|-----------|-----------|-----------|------|------|------|------|
| 11.4 | 0.0   | 99.5        | 2.5       | 99.3      | 5.0        | 99.0      | 7.5       | 98.4      | 10.0 | 98.0 | 12.5 | 97.7 |
| 11.4 | 15.0  | 97.4        | 17.5      | 97.3      | 19.5       | 97.1      | 21.5      | 96.7      | 23.5 | 96.5 | 25.5 | 96.3 |
| 11.4 | 27.5  | 96.4        | 29.5      | 96.8      | 31.5       | 96.8      | 33.5      | 96.3      | 35.5 | 95.9 | 37.5 | 95.5 |
| 11.4 | 39.3  | 95.1        | 40.5      | 95.0      | 41.0       | 94.9      | 42.5      | 95.0      | 47.6 | 95.1 | 49.0 | 94.9 |
| 11.4 | 50.0  | 94.8        | 52.0      | 94.3      | 54.0       | 94.1      | 55.0      | 94.1      | 56.0 | 93.6 | 57.0 | 93.8 |
| 11.4 | 58.0  | 93.8        | 60.0      | 94.0      | 62.0       | 94.2      | 64.0      | 94.3      | 66.0 | 94.4 | 68.0 | 94.6 |
| 11.4 | 71.0  | 94.6        | 74.0      | 94.8      | 76.2       | 95.1      | 90.5      | 95.1      | 92.5 | 95.0 | 95.0 | 95.0 |
| 11.4 | 96.0  | 95.0        | 98.0      | 94.9103.0 | 95.0107.0  | 94.9109.0 | 94.9112.0 | 94.7      |      |      |      |      |
| 11.4 | 114.0 | 94.4118.0   | 93.9120.0 | 93.9122.0 | 93.6124.0  | 93.6126.0 | 93.3      |           |      |      |      |      |
| 11.4 | 128.0 | 93.5129.0   | 93.4130.0 | 93.4131.0 | 93.4133.0  | 93.4135.0 | 93.8      |           |      |      |      |      |
| 11.4 | 137.0 | 94.6139.3   | 95.1140.5 | 95.5141.5 | 95.9142.5  | 96.4143.5 | 96.9      |           |      |      |      |      |
| 11.4 | 145.0 | 97.6146.2   | 98.2147.6 | 99.1149.0 | 100.0151.0 | 101.01.0  |           |           |      |      |      |      |
| 11.4 | 0.13  | 0.0         | 0.13      | 2.5       | 0.13       | 5.0       | 0.13      | 7.5       | *    |      |      |      |
| 11.4 | 0.13  | 10.0        | 0.13      | 12.5      | 0.13       | 15.0      | 0.13      | 17.5      | *    |      |      |      |
| 11.4 | 0.13  | 19.5        | 0.13      | 21.5      | 0.13       | 23.5      | 0.13      | 25.5      | *    |      |      |      |
| 11.4 | 0.13  | 27.5        | 0.13      | 29.5      | 0.13       | 31.5      | 0.13      | 33.5      | *    |      |      |      |
| 11.4 | 0.13  | 35.5        | 0.13      | 37.5      | 0.13       | 39.3      | 0.13      | 40.5      | *    |      |      |      |
| 11.4 | 0.13  | 41.0        | 0.13      | 42.5      | 0.13       | 47.6      | 0.13      | 49.0      | *    |      |      |      |
| 11.4 | 0.13  | 50.0        | 0.13      | 52.0      | 0.13       | 54.0      | 0.13      | 55.0      | *    |      |      |      |
| 11.4 | 0.13  | 56.0        | 0.13      | 57.0      | 0.13       | 58.0      | 0.13      | 60.0      | *    |      |      |      |
| 11.4 | 0.13  | 62.0        | 0.13      | 64.0      | 0.13       | 66.0      | 0.13      | 68.0      | *    |      |      |      |
| 11.4 | 0.13  | 71.0        | 0.13      | 74.0      | 0.13       | 76.2      | 0.13      | 90.5      | *    |      |      |      |
| 11.4 | 0.13  | 92.5        | 0.13      | 95.0      | 0.13       | 96.0      | 0.13      | 98.0      | *    |      |      |      |
| 11.4 | 0.13  | 103.0       | 0.13      | 107.0     | 0.13       | 109.0     | 0.13      | 112.0     | *    |      |      |      |
| 11.4 | 0.13  | 114.0       | 0.13      | 118.0     | 0.13       | 120.0     | 0.13      | 122.0     | *    |      |      |      |
| 11.4 | 0.13  | 124.0       | -0.13     | 126.0     | 0.13       | 128.0     | 0.13      | 129.0     | *    |      |      |      |
| 11.4 | 0.13  | 130.0       | 0.13      | 131.0     | 0.13       | 133.0     | 0.13      | 135.0     | *    |      |      |      |
| 11.4 | 0.13  | 137.0       | 0.13      | 139.3     | 0.13       | 140.5     | 0.13      | 141.5     | *    |      |      |      |
| 11.4 | 0.13  | 142.5       | 0.13      | 143.5     | 0.13       | 145.0     | 0.13      | 146.2     | *    |      |      |      |
| 11.4 | 0.13  | 147.6       | 0.13      | 149.0     | 0.13       | 151.0     |           |           | *    |      |      |      |
| 22.8 | 0.0   | 99.2        | 3.0       | 98.9      | 6.0        | 98.6      | 9.0       | 98.4      | 12.0 | 97.7 | 15.0 | 97.6 |
| 22.8 | 17.6  | 97.0        | 19.3      | 96.9      | 20.3       | 97.1      | 20.6      | 97.6      | 22.0 | 97.6 | 24.0 | 97.6 |
| 22.8 | 25.5  | 97.3        | 26.5      | 97.0      | 26.9       | 96.3      | 28.1      | 95.8      | 28.5 | 95.2 | 29.5 | 94.9 |
| 22.8 | 30.5  | 94.7        | 31.5      | 94.8      | 32.9       | 95.1      | 40.5      | 95.2      | 41.0 | 95.0 | 42.0 | 94.9 |
| 22.8 | 43.0  | 94.8        | 44.0      | 94.9      | 46.0       | 94.9      | 48.0      | 94.7      | 49.0 | 94.7 | 50.0 | 94.7 |
| 22.8 | 52.0  | 94.0        | 53.0      | 94.2      | 56.0       | 94.4      | 59.0      | 94.6      | 62.0 | 94.8 | 65.0 | 94.7 |
| 22.8 | 68.0  | 94.8        | 71.0      | 94.8      | 74.0       | 94.7      | 77.0      | 94.9      | 82.0 | 95.0 | 87.0 | 95.1 |
| 22.8 | 91.0  | 95.1        | 94.0      | 95.0      | 97.0       | 94.9100.0 | 94.9103.0 | 95.0106.0 | 94.9 |      |      |      |
| 22.8 | 109.0 | 94.8112.0   | 94.8115.0 | 94.7118.0 | 94.5121.0  | 94.3122.0 | 94.1      |           |      |      |      |      |
| 22.8 | 123.0 | 94.3124.6   | 95.2125.3 | 95.7126.5 | 96.2127.5  | 96.5129.0 | 96.9      |           |      |      |      |      |
| 22.8 | 131.0 | 97.6132.0   | 97.8132.3 | 99.5135.6 | 100.1136.2 | 99.2138.1 | 100.1     |           |      |      |      |      |
| 22.8 | 140.0 | 110.01142.0 | 1102.4    |           |            |           |           |           |      |      |      |      |
| 22.8 | 0.13  | 0.0         | 0.13      | 3.0       | 0.13       | 6.0       | 0.13      | 9.0       | *    |      |      |      |
| 22.8 | 0.13  | 12.0        | 0.13      | 15.0      | 0.13       | 17.6      | 0.13      | 19.3      | *    |      |      |      |
| 22.8 | 0.13  | 20.3        | 0.13      | 20.6      | 0.13       | 22.0      | 0.13      | 24.0      | *    |      |      |      |
| 22.8 | 0.13  | 25.5        | 0.13      | 26.5      | 0.13       | 26.9      | 0.13      | 28.1      | *    |      |      |      |
| 22.8 | 0.13  | 28.5        | 0.13      | 29.5      | 0.13       | 30.5      | 0.13      | 31.5      | *    |      |      |      |

|      |           |      |      |       |       |       |      |       |   |
|------|-----------|------|------|-------|-------|-------|------|-------|---|
| 22.8 | 0.13      | 32.9 | 0.13 | 40.5  | 0.13  | 41.0  | 0.13 | 42.0  | * |
| 22.8 | 0.13      | 43.0 | 0.13 | 44.0  | 0.13  | 46.0  | 0.13 | 48.0  | * |
| 22.8 | 0.13      | 49.0 | 0.13 | 50.0  | -0.13 | 52.0  | 0.13 | 53.0  | * |
| 22.8 | 0.13      | 56.0 | 0.13 | 59.0  | 0.13  | 62.0  | 0.13 | 65.0  | * |
| 22.8 | 0.13      | 68.0 | 0.13 | 71.0  | 0.13  | 74.0  | 0.13 | 77.0  | * |
| 22.8 | 0.13      | 82.0 | 0.13 | 87.0  | 0.13  | 91.0  | 0.13 | 94.0  | * |
| 22.8 | 0.13      | 97.0 | 0.13 | 100.0 | 0.13  | 103.0 | 0.13 | 106.0 | * |
| 22.8 | 0.13109.0 |      | 0.13 | 112.0 | 0.13  | 115.0 | 0.13 | 118.0 | * |
| 22.8 | 0.13121.0 |      | 0.13 | 122.0 | 0.13  | 123.0 | 0.13 | 124.6 | * |
| 22.8 | 0.13125.3 |      | 0.13 | 126.5 | 0.13  | 127.5 | 0.13 | 129.0 | * |
| 22.8 | 0.13131.0 |      | 0.13 | 132.0 | 0.13  | 132.3 | 0.13 | 135.6 | * |
| 22.8 | 0.13136.2 |      | 0.13 | 138.1 | 0.13  | 140.3 | 0.13 | 142.1 | * |

ENDJ  
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Sycane River SY\_4 06/26/93

| RUN        | MID       |             |            |           |            |           |           |           |      |      |      |      |
|------------|-----------|-------------|------------|-----------|------------|-----------|-----------|-----------|------|------|------|------|
| PARD 30    | 1.00      | 0           | 1.000      |           |            |           |           |           |      |      |      |      |
| QARD 3.3   | 94.86     |             | 2.900      | 2.900     |            |           |           |           |      |      |      |      |
| QARD 5.0   | 94.87     |             | 2.000      | 2.000     |            |           |           |           |      |      |      |      |
| QARD 8.0   | 94.91     |             | 1.800      | 1.800     |            |           |           |           |      |      |      |      |
| QARD 12.0  | 94.92     |             | 1.630      | 1.630     |            |           |           |           |      |      |      |      |
| QARD 20.0  | 95.02     |             | 1.400      | 1.400     |            |           |           |           |      |      |      |      |
| QARD 30.0  | 95.07     |             | 1.200      | 1.200     |            |           |           |           |      |      |      |      |
| QARD 40.0  | 95.13     |             | 1.100      | 1.100     |            |           |           |           |      |      |      |      |
| QARD 49.6  | 95.23     |             | 1.000      | 1.000     |            |           |           |           |      |      |      |      |
| QARD 60.0  | 95.33     |             | 0.990      | 0.990     |            |           |           |           |      |      |      |      |
| QARD 70.0  | 95.39     |             | 0.970      | 0.970     |            |           |           |           |      |      |      |      |
| QARD 80.0  | 95.44     |             | 0.960      | 0.960     |            |           |           |           |      |      |      |      |
| QARD 90.0  | 95.50     |             | 0.950      | 0.950     |            |           |           |           |      |      |      |      |
| QARD 100.0 | 95.54     |             | 0.930      | 0.930     |            |           |           |           |      |      |      |      |
| QARD 110.0 | 95.59     |             | 0.920      | 0.920     |            |           |           |           |      |      |      |      |
| QARD 120.0 | 95.63     |             | 0.910      | 0.910     |            |           |           |           |      |      |      |      |
| QARD 130.0 | 95.67     |             | 0.900      | 0.900     |            |           |           |           |      |      |      |      |
| QARD 140.0 | 95.72     |             | 0.880      | 0.880     |            |           |           |           |      |      |      |      |
| QARD 150.0 | 95.75     |             | 0.870      | 0.870     |            |           |           |           |      |      |      |      |
| QARD 160.0 | 95.79     |             | 0.860      | 0.860     |            |           |           |           |      |      |      |      |
| QARD 170.0 | 95.82     |             | 0.840      | 0.840     |            |           |           |           |      |      |      |      |
| QARD 180.0 | 95.86     |             | 0.830      | 0.830     |            |           |           |           |      |      |      |      |
| QARD 200.0 | 95.93     |             | 0.810      | 0.810     |            |           |           |           |      |      |      |      |
| QARD 220.0 | 95.99     |             | 0.780      | 0.780     |            |           |           |           |      |      |      |      |
| QARD 250.0 | 96.07     |             | 0.740      | 0.740     |            |           |           |           |      |      |      |      |
| QARD 300.0 | 96.21     |             | 0.680      | 0.680     |            |           |           |           |      |      |      |      |
| QARD 350.0 | 96.33     |             | 0.610      | 0.610     |            |           |           |           |      |      |      |      |
| QARD 400.0 | 96.46     |             | 0.550      | 0.550     |            |           |           |           |      |      |      |      |
| QARD 500.0 | 96.69     |             | 0.420      | 0.420     |            |           |           |           |      |      |      |      |
| QARD 600.0 | 96.89     |             | 0.290      | 0.290     |            |           |           |           |      |      |      |      |
| QARD 653.7 | 96.99     |             | 0.220      | 0.220     |            |           |           |           |      |      |      |      |
| FFFFTTTT   |           |             |            |           |            |           |           |           |      | **   |      |      |
| 22.8       | 0.0       | 99.2        | 3.0        | 98.9      | 6.0        | 98.6      | 9.0       | 98.4      | 12.0 | 97.7 | 15.0 | 97.6 |
| 22.8       | 17.6      | 97.0        | 19.3       | 96.9      | 20.3       | 97.1      | 20.6      | 97.6      | 22.0 | 97.6 | 24.0 | 97.6 |
| 22.8       | 25.5      | 97.3        | 26.5       | 97.0      | 26.9       | 96.3      | 28.1      | 95.8      | 28.5 | 95.2 | 29.5 | 94.9 |
| 22.8       | 30.5      | 94.7        | 31.5       | 94.8      | 32.9       | 95.1      | 40.5      | 95.2      | 41.0 | 95.0 | 42.0 | 94.9 |
| 22.8       | 43.0      | 94.8        | 44.0       | 94.9      | 46.0       | 94.9      | 48.0      | 94.7      | 49.0 | 94.7 | 50.0 | 94.7 |
| 22.8       | 52.0      | 94.0        | 53.0       | 94.2      | 56.0       | 94.4      | 59.0      | 94.6      | 62.0 | 94.8 | 65.0 | 94.7 |
| 22.8       | 68.0      | 94.8        | 71.0       | 94.8      | 74.0       | 94.7      | 77.0      | 94.9      | 82.0 | 95.0 | 87.0 | 95.1 |
| 22.8       | 91.0      | 95.1        | 94.0       | 95.0      | 97.0       | 94.9100.0 | 94.9103.0 | 95.0106.0 | 94.9 |      |      |      |
| 22.8       | 109.0     | 94.8112.0   | 94.8115.0  | 94.7118.0 | 94.5121.0  | 94.3122.0 | 94.1      |           |      |      |      |      |
| 22.8       | 123.0     | 94.3124.6   | 95.2125.3  | 95.7126.5 | 96.2127.5  | 96.5129.0 | 96.9      |           |      |      |      |      |
| 22.8       | 131.0     | 97.6132.0   | 97.8132.3  | 99.5135.6 | 100.1136.2 | 99.2138.1 | 1100.1    |           |      |      |      |      |
| 22.8       | 140.0     | 3100.1142.1 | 1102.4     |           |            |           |           |           |      |      |      |      |
| 22.8       | 0.16      | 0.0         | 0.16       | 3.0       | 0.16       | 6.0       | 0.16      | 9.0       |      |      |      | *    |
| 22.8       | 0.16      | 12.0        | 0.16       | 15.0      | 0.16       | 17.6      | 0.16      | 19.3      |      |      |      | *    |
| 22.8       | 0.16      | 20.3        | 0.16       | 20.6      | 0.16       | 22.0      | 0.16      | 24.0      |      |      |      | *    |
| 22.8       | 0.16      | 25.5        | 0.16       | 26.5      | 0.16       | 26.9      | 0.16      | 28.1      |      |      |      | *    |
| 22.8       | 0.16      | 28.5        | 0.16       | 29.5      | 0.16       | 30.5      | 0.16      | 31.5      |      |      |      | *    |
| 22.8       | 0.16      | 32.9        | 0.16       | 40.5      | 0.16       | 41.0      | 0.16      | 42.0      |      |      |      | *    |
| 22.8       | 0.16      | 43.0        | 0.16       | 44.0      | 0.16       | 46.0      | 0.16      | 48.0      |      |      |      | *    |
| 22.8       | 0.16      | 49.0        | 0.16       | 50.0      | 0.16       | 52.0      | 0.16      | 53.0      |      |      |      | *    |
| 22.8       | 0.16      | 56.0        | 0.16       | 59.0      | 0.16       | 62.0      | 0.16      | 65.0      |      |      |      | *    |
| 22.8       | 0.16      | 68.0        | 0.16       | 71.0      | 0.16       | 74.0      | 0.16      | 77.0      |      |      |      | *    |
| 22.8       | 0.16      | 82.0        | 0.16       | 87.0      | 0.16       | 91.0      | 0.16      | 94.0      |      |      |      | *    |
| 22.8       | 0.16      | 97.0        | 0.16       | 100.0     | 0.16       | 103.0     | 0.16      | 106.0     |      |      |      | *    |
| 22.8       | 0.16109.0 | 0.16        | 112.0      | 0.16      | 115.0      | 0.16      | 118.0     |           |      |      |      | *    |
| 22.8       | 0.16121.0 | 0.16        | 122.0      | 0.16      | 123.0      | 0.16      | 124.6     |           |      |      |      | *    |
| 22.8       | 0.16125.3 | 0.16        | 126.5      | 0.16      | 127.5      | 0.16      | 129.0     |           |      |      |      | *    |
| 22.8       | 0.16131.0 | 0.16        | 132.0      | 0.16      | 132.3      | 0.16      | 135.6     |           |      |      |      | *    |
| 22.8       | 0.16136.2 | 0.16        | 138.1      | 0.16      | 140.3      | 0.16      | 142.1     |           |      |      |      | *    |
| 39.9       | 12.0      | 99.2        | 15.0       | 98.8      | 18.0       | 98.1      | 21.0      | 97.7      | 24.0 | 97.5 | 27.0 | 96.7 |
| 39.9       | 30.0      | 96.3        | 33.0       | 95.7      | 35.0       | 95.7      | 36.2      | 96.0      | 37.1 | 95.5 | 37.7 | 95.5 |
| 39.9       | 38.9      | 96.6        | 40.7       | 97.3      | 42.3       | 96.9      | 44.0      | 97.4      | 45.0 | 97.4 | 46.0 | 97.4 |
| 39.9       | 47.0      | 97.1        | 48.0       | 96.8      | 49.0       | 96.5      | 50.0      | 95.9      | 51.0 | 95.7 | 52.0 | 95.6 |
| 39.9       | 53.0      | 95.8        | 54.0       | 95.7      | 55.0       | 95.5      | 56.0      | 95.3      | 58.0 | 95.1 | 60.0 | 95.2 |
| 39.9       | 62.0      | 95.4        | 64.0       | 95.5      | 66.0       | 95.6      | 68.0      | 95.3      | 71.0 | 94.9 | 74.0 | 94.7 |
| 39.9       | 77.0      | 94.8        | 80.0       | 94.6      | 83.0       | 94.6      | 86.0      | 94.7      | 89.0 | 94.9 | 92.0 | 95.0 |
| 39.9       | 95.0      | 95.1        | 98.0       | 95.0101.0 | 94.9104.0  | 95.1107.0 | 95.2110.0 | 95.2      |      |      |      |      |
| 39.9       | 113.0     | 95.2116.0   | 95.2119.0  | 95.3122.0 | 95.4125.0  | 95.4128.0 | 95.2      |           |      |      |      |      |
| 39.9       | 131.0     | 95.3134.0   | 95.3134.9  | 95.7135.0 | 96.3137.0  | 96.6139.0 | 96.9      |           |      |      |      |      |
| 39.9       | 141.0     | 97.3143.0   | 97.7145.0  | 97.9147.0 | 98.2149.6  | 98.5151.3 | 99.2      |           |      |      |      |      |
| 39.9       | 153.0     | 99.8155.8   | 100.6156.0 | 101.0     |            |           |           |           |      |      |      |      |
| 39.9       | 0.17      | 12.0        | 0.17       | 15.0      | 0.17       | 18.0      | 0.17      | 21.0      |      |      |      | *    |
| 39.9       | 0.17      | 24.0        | 0.17       | 27.0      | 0.17       | 30.0      | 0.17      | 33.0      |      |      |      | *    |
| 39.9       | 0.17      | 35.0        | 0.17       | 36.2      | 0.17       | 37.1      | 0.17      | 37.7      |      |      |      | *    |
| 39.9       | 0.17      | 38.9        | 0.17       | 40.7      | 0.17       | 42.3      | 0.17      | 44.0      |      |      |      | *    |
| 39.9       | 0.17      | 45.0        | 0.17       | 46.0      | 0.17       | 47.0      | 0.17      | 48.0      |      |      |      | *    |
| 39.9       | 0.17      | 49.0        | 0.17       | 50.0      | 0.17       | 51.0      | 0.17      | 52.0      |      |      |      | *    |

|                |            |            |            |   |
|----------------|------------|------------|------------|---|
| 39.9 0.17 53.0 | 0.17 54.0  | 0.17 55.0  | 0.17 56.0  | * |
| 39.9 0.17 58.0 | 0.17 60.0  | 0.17 62.0  | 0.17 64.0  | * |
| 39.9 0.17 66.0 | 0.17 68.0  | 0.17 71.0  | 0.17 74.0  | * |
| 39.9 0.17 77.0 | - .17 80.0 | 0.17 83.0  | 0.17 86.0  | * |
| 39.9 0.17 89.0 | 0.17 92.0  | 0.17 95.0  | 0.17 98.0  | * |
| 39.9 0.17101.0 | 0.17 104.0 | 0.17 107.0 | 0.17 110.0 | * |
| 39.9 0.17113.0 | 0.17 116.0 | 0.17 119.0 | 0.17 122.0 | * |
| 39.9 0.17125.0 | 0.17 128.0 | 0.17 131.0 | 0.17 134.0 | * |
| 39.9 0.17134.9 | 0.17 135.0 | 0.17 137.0 | 0.17 139.0 | * |
| 39.9 0.17141.0 | 0.17 143.0 | 0.17 145.0 | 0.17 147.0 | * |
| 39.9 0.17149.6 | 0.17 151.3 | 0.17 153.0 | 0.17 155.8 | * |
| 39.9 0.17156.0 |            |            |            | * |

ENDJ  
 ENDR  
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Stream: Sycan River (Sycan River above Torrent Springs)

Site: SY-4

Date: 5/15/93

Habitat: Run

Flow: High

Date: 6/26/93

Habitat: Run

Flow: Mid

Date: 9/14/93

Habitat: Run

Flow: Low

(1) Level Loop Survey (BM & HP)

| BM/HP (ft) | BS (ft) | HI (ft) | FS (ft) | Elev (ft) |
|------------|---------|---------|---------|-----------|
| BM         | 3.91    | 103.91  |         |           |
| HP1        |         |         | 4.87    | 99.04     |
| HP2        |         |         | 4.03    | 99.88     |
| HP3        |         |         | 4.58    | 99.33     |
| TP         |         |         |         |           |
| HP3        | 4.14    | 103.47  |         |           |
| HP2        |         |         | 4.59    | 98.88     |
| HP1        |         |         | 4.43    | 99.04     |
| BM         |         |         | 3.47    | 100.00    |

Comment:

(1) Level Loop Survey

| BM/HP (ft) | BS (ft) | HI (ft) | FS (ft) | Elev (ft) |
|------------|---------|---------|---------|-----------|
| BM         | 6.45    | 106.45  |         |           |
| HP1        |         |         | 6.66    | 99.79     |
| HP2        |         |         | 7.18    | 99.27     |
| HP3        |         |         | 6.93    | 99.52     |
| TP         |         |         |         |           |
| HP3        | 6.91    | 106.43  |         |           |
| HP2        |         |         | 7.16    | 99.27     |
| HP1        |         |         | 6.64    | 99.79     |
| BM         |         |         | 6.43    | 100.00    |

Comment: This is Rifle's level loop

(1) Level Loop Survey

| BM/HP (ft) | BS (ft) | HI (ft) | FS (ft) | Elev (ft) |
|------------|---------|---------|---------|-----------|
| BM         | 3.91    | 103.91  |         |           |
| HP1        |         |         | 4.87    | 99.04     |
| HP2        |         |         | 5.03    | 98.88     |
| HP3        |         |         | 4.58    | 99.33     |
| TP         |         |         |         |           |
| HP3        | 4.44    | 103.77  |         |           |
| HP2        |         |         | 4.91    | 98.86     |
| HP1        |         |         | 4.73    | 99.04     |
| BM         |         |         | 3.78    | 99.99     |

Comment:

(2) Water Surface Elevation (WSE) Survey

| L/R | Sta (ft)  | HI (ft) | FS (ft) | Rod (ft) | WSE (ft) | Ave WSE (ft) | Q (cfs) |
|-----|-----------|---------|---------|----------|----------|--------------|---------|
| TR1 | LWE 106   | 103.47  | 5.67    | 0.00     | 97.80    | 97.81        | 653.7   |
|     | RWE       |         | 5.66    | 0.00     | 97.81    |              |         |
| TR2 | LWE 133.5 | 103.47  | 5.65    | 0.00     | 97.82    | 97.84        |         |
|     | RWE       |         | 5.61    | 0.00     | 97.86    |              |         |
| TR3 | LWE 189.7 | 103.47  | 5.60    | 0.00     | 97.87    | 97.84        |         |
|     | RWE       |         | 5.67    | 0.00     | 97.80    |              |         |
|     |           |         |         |          |          | Ave Q=       | 653.7   |

Note: WSE slope = 0.036%

(2) Water Surface Elevation (WSE) Survey

| L/R | Sta (ft)  | HI (ft) | FS (ft) | Rod (ft) | WSE (ft) | Ave WSE (ft)        | Q (cfs) |
|-----|-----------|---------|---------|----------|----------|---------------------|---------|
| TR1 | LWE 106   | 104.03  | 7.45    | 0.00     | 96.58    | 96.58               | 48.8    |
|     | RWE       |         | 7.46    | 0.00     | 96.57    |                     |         |
| TR2 | LWE 133.5 | 104.03  | 7.42    | 0.00     | 96.61    | 96.61               | 50.0    |
|     | RWE       |         | 7.43    | 0.00     | 96.60    |                     |         |
| TR3 | LWE 189.7 | 104.03  | 7.45    | 0.00     | 96.58    | 96.59               | 55.3    |
|     | RWE       |         | 7.44    | 0.00     | 96.59    |                     |         |
|     |           |         |         |          |          | Ave Q(Run)=         | 51.3    |
|     |           |         |         |          |          | Ave Q(Rifle)=       | 47.9    |
|     |           |         |         |          |          | Ave Q(Run & Rifle)= | 49.6    |

Note: WSE slope = 0.012%

(2) Water Surface Elevation (WSE) Survey

| L/R | Sta (ft)  | HI (ft) | FS (ft) | Rod (ft) | WSE (ft) | Ave WSE (ft)        | Q (cfs) |
|-----|-----------|---------|---------|----------|----------|---------------------|---------|
| TR1 | LWE 106   | 103.77  | 8.22    | 0.00     | 95.55    | 95.56               | 3.4     |
|     | RWE       |         | 8.20    | 0.00     | 95.57    |                     |         |
| TR2 | LWE 133.5 | 103.77  | 8.19    | 0.00     | 95.58    | 95.58               | 2.0     |
|     | RWE       |         | 8.20    | 0.00     | 95.57    |                     |         |
| TR3 | LWE 189.7 | 103.77  | 8.17    | 0.00     | 95.60    | 95.60               | 3.8     |
|     | RWE       |         | 8.18    | 0.00     | 95.59    |                     |         |
|     |           |         |         |          |          | Ave Q(Run)=         | 3.0     |
|     |           |         |         |          |          | Ave Q(Rifle)=       | 3.5     |
|     |           |         |         |          |          | Ave Q(Run & Rifle)= | 3.3     |

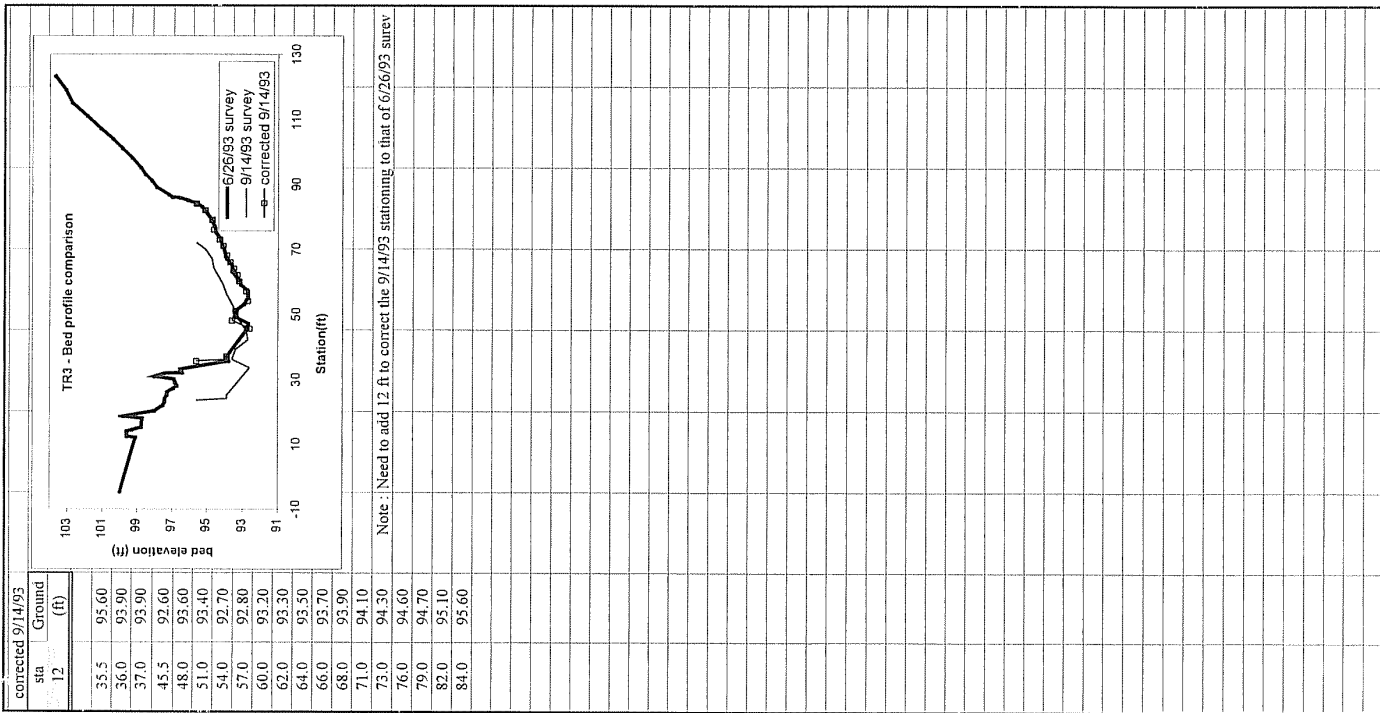
Note: WSE slope = 0.042%











Sycane River SY\_4 06/26/93

RUN MID TRANSECT 1

IOC 1101100000001000101000

QARD 3.3  
 QARD 5.0  
 QARD 8.0  
 QARD 12.0  
 QARD 20.0  
 QARD 30.0  
 QARD 40.0  
 QARD 49.6  
 QARD 60.0  
 QARD 70.0  
 QARD 80.0  
 QARD 90.0  
 QARD 100.0  
 QARD 110.0  
 QARD 120.0  
 QARD 130.0  
 QARD 140.0  
 QARD 150.0  
 QARD 160.0  
 QARD 170.0  
 QARD 180.0  
 QARD 200.0  
 QARD 220.0  
 QARD 250.0  
 QARD 300.0  
 QARD 350.0  
 QARD 400.0  
 QARD 500.0  
 QARD 600.0  
 QARD 653.7

XSEC1000.0 0.00 1.0 92.68 0.00012

1000.0-14.0101.6-12.9101.4-12.6100.7 -9.0100.1 -6.0 99.8 -2.5 99.3  
 1000.0 0.0 98.9 2.0 98.6 4.0 98.1 5.7 97.4 5.9 94.6 7.0 94.3  
 1000.0 9.0 93.7 11.0 93.4 13.0 93.4 15.0 93.5 17.0 93.2 19.0 93.0  
 1000.0 21.0 92.8 23.0 92.7 25.0 93.4 27.0 94.0 29.0 94.2 31.0 93.4  
 1000.0 33.0 93.4 35.0 93.6 37.0 93.2 39.0 93.2 41.0 93.2 43.0 93.4  
 1000.0 45.0 93.8 47.0 93.9 49.0 94.1 51.0 94.4 53.0 94.5 55.0 94.8  
 1000.0 57.0 95.1 59.0 95.3 61.0 95.3 63.0 95.4 65.0 95.6 67.0 95.4  
 1000.0 69.0 95.6 70.1 95.7 70.2 97.5 71.0 98.0 72.0 98.4 73.2 98.5  
 1000.0 81.0 99.2 89.0 99.9 95.7101.0100.0101.3

NS 1000.0 1.1 1.1 1.1 1.1 1.1 1.1 1.1  
 NS 1000.0 1.1 1.1 1.1 0.4 1.1 0.3 1.1 0.3 3.3  
 NS 1000.0 0.3 3.3 8.8 8.8 8.8 8.8 8.8  
 NS 1000.0 8.6 8.6 0.3 8.6 0.2 5.5 0.2 5.5 5.5  
 NS 1000.0 5.5 0.1 5.5 5.5 6.6 6.8 6.8  
 NS 1000.0 .055 8.8 .055 8.6 8.6 8.6 8.8 9.8  
 NS 1000.0 9.9 0.08 9.9 0.1 9.9 0.12 9.8 0.16 1.1 0.2 1.1  
 NS 1000.0 0.2 1.1 0.2 1.1 .2 1.1 .2 1.1 .2 1.1 1.1  
 NS 1000.0 1.1 1.1 1.1 1.1 1.1

CAL11000.0 96.58 49.6

VEL11000.0 0.01 0.01  
 VEL11000.0 0.03 0.20 0.28 0.32 0.33 0.46 0.25 0.13-0.02 0.01 0.08 0.30  
 VEL11000.0 0.33 0.11 0.21 0.51 0.62 0.60 0.68 0.71 0.51 0.58 0.38 0.38  
 VEL11000.0 0.35 0.13 0.09 0.04 0.02 0.03 0.01 0.03

VEL11000.0

CAL21000.0 95.56 3.3

VEL21000.0  
 VEL21000.0  
 VEL21000.0  
 VEL21000.0  
 VEL21000.0

CAL31000.0 97.81 653.7

VEL31000.0  
 VEL31000.0  
 VEL31000.0  
 VEL31000.0  
 VEL31000.0

ENDJ

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Sycane River SY_4 06/26/93
RUN MID TRANSECT 2
IOC 1101100000001000101000
QARD 3.3
QARD 5.0
QARD 8.0
QARD 12.0
QARD 20.0
QARD 30.0
QARD 40.0
QARD 49.6
QARD 60.0
QARD 70.0
QARD 80.0
QARD 90.0
QARD 100.0
QARD 110.0
QARD 120.0
QARD 130.0
QARD 140.0
QARD 150.0
QARD 160.0
QARD 170.0
QARD 180.0
QARD 200.0
QARD 220.0
QARD 250.0
QARD 300.0
QARD 350.0
QARD 400.0
QARD 500.0
QARD 600.0
QARD 653.7
XSEC1000.0 0.00 1.0 92.68 0.00012
1000.0 -5.0 99.4 -3.0 99.0 0.0 98.4 2.0 98.2 3.0 97.8 4.0 97.5
1000.0 5.0 96.8 5.5 96.6 6.0 96.4 7.0 96.0 9.0 93.9 11.0 93.2
1000.0 13.0 93.1 15.0 93.0 17.0 92.9 19.0 93.0 21.0 92.7 23.0 92.6
1000.0 25.0 92.6 27.0 92.7 29.0 92.6 31.0 92.7 33.0 93.0 35.0 93.2
1000.0 37.0 93.5 39.0 93.6 41.0 93.8 43.0 93.9 45.0 94.0 47.0 94.2
1000.0 49.0 94.2 51.0 94.5 53.0 94.7 55.0 94.8 57.0 95.0 59.0 94.8
1000.0 61.0 95.1 63.0 95.3 64.0 95.5 65.0 95.7 65.5 95.9 65.9 97.3
1000.0 66.7 97.9 68.0 98.1 69.7 98.1 73.0 98.6 76.0 99.0 80.0 99.7
1000.0 85.0100.8 88.0101.3
NS 1000.0 1.1 1.1 1.1 1.1 1.1 1.1 1.1
NS 1000.0 1.1 1.1 1.1 0.5 1.1 0.5 8.8 0.5 8.9
NS 1000.0 0.5 8.8 8.6 8.6 8.6 8.6 8.6 8.6
NS 1000.0 8.6 8.6 8.6 0.09 8.6 0.09 8.6 0.07 8.6
NS 1000.0 8.6 .055 8.6 .055 8.6 8.6 8.6 8.6
NS 1000.0 8.6 8.6 8.6 8.6 0.1 9.8 0.2 9.8
NS 1000.0 0.3 9.8 0.5 9.8 0.5 9.8 0.5 9.8 0.5 9.8 1.3
NS 1000.0 1.3 1.3 1.3 1.3 1.3 1.3 1.3
NS 1000.0 1.3 1.3
CAL11000.0 96.61 49.6
VEL11000.0 0.00 0.01 0.02 0.02 0.01
VEL11000.0 0.04 0.08 0.11 0.15 0.22 0.26 0.36 0.30 0.33 0.36 0.32 0.62
VEL11000.0 0.47 0.62 0.70 0.63 0.53 0.54 0.54 0.39 0.45 0.28 0.04-0.01
VEL11000.0-0.01 0.01-0.01 0.01 0.03
VEL11000.0
CAL21000.0 95.58 3.3
VEL21000.0
VEL21000.0
VEL21000.0
VEL21000.0
VEL21000.0
CAL31000.0 97.84 653.7
VEL31000.0
VEL31000.0
VEL31000.0
VEL31000.0
VEL31000.0
ENDJ
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RUN                                MID                                TRANSECT 3
IOC      1101100100001000101000
QARD 3.3
QARD 5.0
QARD 8.0
QARD 12.0
QARD 20.0
QARD 30.0
QARD 40.0
QARD 49.6
QARD 60.0
QARD 70.0
QARD 80.0
QARD 90.0
QARD 100.0
QARD 110.0
QARD 120.0
QARD 130.0
QARD 140.0
QARD 150.0
QARD 160.0
QARD 170.0
QARD 180.0
QARD 200.0
QARD 220.0
QARD 250.0
QARD 300.0
QARD 350.0
QARD 400.0
QARD 500.0
QARD 600.0
QARD 653.7
XSEC1000.0      0.00 1.0      92.69      0.00012
1000.0 -4.7100.0 12.0 99.1 12.4 99.6 14.0 99.6 14.4 99.3 15.2 98.8
1000.0 17.9 98.7 18.6 99.8 20.3 98.0 22.0 97.5 23.0 97.4 24.0 97.4
1000.0 25.0 97.3 26.0 97.3 27.2 96.9 28.0 96.7 29.0 96.8 30.0 96.9
1000.0 30.8 98.0 31.8 97.4 31.9 96.4 33.0 96.5 35.5 93.8 36.8 93.9
1000.0 45.0 92.8 47.0 92.7 49.0 93.4 51.0 93.4 53.0 92.9 55.0 92.7
1000.0 57.0 92.7 59.0 93.1 61.0 93.3 63.0 93.6 65.0 93.6 67.0 93.9
1000.0 69.0 94.0 71.0 94.1 73.0 94.2 75.0 94.5 77.0 94.6 79.0 94.7
1000.0 81.0 95.0 83.0 95.3 84.0 95.6 85.0 96.1 85.8 96.6 86.0 97.0
1000.0 86.7 97.2 89.0 97.9 91.0 98.2 93.0 98.5 95.0 98.8 98.0 99.3
1000.0101.0 99.9104.0100.4107.0101.1111.0101.9115.0102.7119.0103.1
1000.0123.2103.7
NS 1000.0      7.1      7.1      7.1      7.1      7.1      7.1
NS 1000.0      7.1      7.1      7.1      7.1      7.1      7.1
NS 1000.0      7.7      7.7      7.7      7.7      7.7      7.7
NS 1000.0      7.7      7.7      7.7      7.7      7.1      8.8
NS 1000.0      8.7 .2      8.7      8.7 .15      8.7      6.8      6.8
NS 1000.0      6.8      6.8      6.8      6.8      6.8      .035      6.8
NS 1000.0 .036      6.8      6.8 .08      6.8 0.1      8.9 0.15      8.9 0.2      8.9
NS 1000.0 0.2      9.8 0.2      9.8 0.2      1.3 0.2      1.3 0.2      1.3 0.2      1.3
NS 1000.0      1.3      1.3      1.3      1.3      1.3      1.3
NS 1000.0      1.3      1.3      1.3      1.3      1.3      1.3
NS 1000.0      1.3
WSL 1000.0      95.59      95.72      95.88      96.03      96.22      96.38
WSL 1000.0      96.50      96.59      96.67      96.74      96.80      96.85
WSL 1000.0      96.90      96.94      96.98      97.02      97.06      97.09
WSL 1000.0      97.12      97.15      97.18      97.23      97.28      97.34
WSL 1000.0      97.43      97.52      97.60      97.72      97.82      97.87
CAL11000.0      96.59      49.6
VEL11000.0
VEL11000.0
VEL11000.0      0.01 0.01 0.10 0.11
VEL11000.0 0.18 0.11 0.20 0.09 0.35 0.52 0.41 0.89 0.78 0.80 0.81 1.38
VEL11000.0 1.02 0.71 0.22 0.06-0.08-0.10-0.06-0.03 0.04-0.01 0.00
VEL11000.0
VEL11000.0
CAL21000.0      95.60      3.3
VEL21000.0
VEL21000.0
VEL21000.0
VEL21000.0
VEL21000.0
VEL21000.0
CAL31000.0      97.84      653.7
VEL31000.0
VEL31000.0
VEL31000.0
VEL31000.0
VEL31000.0
VEL31000.0
ENDJ

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Sycane River SY\_4 06/26/93

| RUN      | MID   |       |       |       |       |       |       |       |       |       |       |       |
|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| PARD     | 30    | 1.00  | 0     | 1.000 |       |       |       |       |       |       |       |       |
| QARD     | 3.3   | 95.59 |       | 2.000 | 2.000 |       |       |       |       |       |       |       |
| QARD     | 5.0   | 95.72 |       | 1.800 | 1.800 |       |       |       |       |       |       |       |
| QARD     | 8.0   | 95.88 |       | 1.590 | 1.590 |       |       |       |       |       |       |       |
| QARD     | 12.0  | 96.03 |       | 1.430 | 1.430 |       |       |       |       |       |       |       |
| QARD     | 20.0  | 96.22 |       | 1.250 | 1.250 |       |       |       |       |       |       |       |
| QARD     | 30.0  | 96.38 |       | 1.130 | 1.130 |       |       |       |       |       |       |       |
| QARD     | 40.0  | 96.50 |       | 1.050 | 1.050 |       |       |       |       |       |       |       |
| QARD     | 49.6  | 96.59 |       | 1.000 | 1.000 |       |       |       |       |       |       |       |
| QARD     | 60.0  | 96.67 |       | 0.940 | 0.940 |       |       |       |       |       |       |       |
| QARD     | 70.0  | 96.74 |       | 0.900 | 0.900 |       |       |       |       |       |       |       |
| QARD     | 80.0  | 96.80 |       | 0.870 | 0.870 |       |       |       |       |       |       |       |
| QARD     | 90.0  | 96.85 |       | 0.850 | 0.850 |       |       |       |       |       |       |       |
| QARD     | 100.0 | 96.90 |       | 0.820 | 0.820 |       |       |       |       |       |       |       |
| QARD     | 110.0 | 96.94 |       | 0.800 | 0.800 |       |       |       |       |       |       |       |
| QARD     | 120.0 | 96.98 |       | 0.780 | 0.780 |       |       |       |       |       |       |       |
| QARD     | 130.0 | 97.02 |       | 0.770 | 0.770 |       |       |       |       |       |       |       |
| QARD     | 140.0 | 97.06 |       | 0.750 | 0.750 |       |       |       |       |       |       |       |
| QARD     | 150.0 | 97.09 |       | 0.740 | 0.740 |       |       |       |       |       |       |       |
| QARD     | 160.0 | 97.12 |       | 0.730 | 0.730 |       |       |       |       |       |       |       |
| QARD     | 170.0 | 97.15 |       | 0.720 | 0.720 |       |       |       |       |       |       |       |
| QARD     | 180.0 | 97.18 |       | 0.710 | 0.710 |       |       |       |       |       |       |       |
| QARD     | 200.0 | 97.23 |       | 0.690 | 0.690 |       |       |       |       |       |       |       |
| QARD     | 220.0 | 97.28 |       | 0.670 | 0.670 |       |       |       |       |       |       |       |
| QARD     | 250.0 | 97.34 |       | 0.650 | 0.650 |       |       |       |       |       |       |       |
| QARD     | 300.0 | 97.43 |       | 0.620 | 0.620 |       |       |       |       |       |       |       |
| QARD     | 350.0 | 97.51 |       | 0.590 | 0.590 |       |       |       |       |       |       |       |
| QARD     | 400.0 | 97.59 |       | 0.570 | 0.570 |       |       |       |       |       |       |       |
| QARD     | 500.0 | 97.71 |       | 0.540 | 0.540 |       |       |       |       |       |       |       |
| QARD     | 600.0 | 97.81 |       | 0.510 | 0.510 |       |       |       |       |       |       |       |
| QARD     | 653.7 | 97.86 |       | 0.500 | 0.500 |       |       |       |       |       |       |       |
| FFFFTTTT |       |       |       |       |       |       |       |       |       |       |       |       |
| 133.5    | -5.0  | 99.4  | -3.0  | 99.0  | 0.0   | 98.4  | 2.0   | 98.2  | 3.0   | 97.8  | 4.0   | 97.5  |
| 133.5    | 5.0   | 96.8  | 5.5   | 96.6  | 6.0   | 96.4  | 7.0   | 96.0  | 9.0   | 93.9  | 11.0  | 93.2  |
| 133.5    | 13.0  | 93.1  | 15.0  | 93.0  | 17.0  | 92.9  | 19.0  | 93.0  | 21.0  | 92.7  | 23.0  | 92.6  |
| 133.5    | 25.0  | 92.6  | 27.0  | 92.7  | 29.0  | 92.6  | 31.0  | 92.7  | 33.0  | 93.0  | 35.0  | 93.2  |
| 133.5    | 37.0  | 93.5  | 39.0  | 93.6  | 41.0  | 93.8  | 43.0  | 93.9  | 45.0  | 94.0  | 47.0  | 94.2  |
| 133.5    | 49.0  | 94.2  | 51.0  | 94.5  | 53.0  | 94.7  | 55.0  | 94.8  | 57.0  | 95.0  | 59.0  | 94.8  |
| 133.5    | 61.0  | 95.1  | 63.0  | 95.3  | 64.0  | 95.5  | 65.0  | 95.7  | 65.5  | 95.9  | 65.9  | 97.3  |
| 133.5    | 66.7  | 97.9  | 68.0  | 98.1  | 69.7  | 98.1  | 73.0  | 98.6  | 76.0  | 99.0  | 80.0  | 99.7  |
| 133.5    | 85.0  | 100.8 | 88.0  | 101.3 |       |       |       |       |       |       |       |       |
| 133.5    | 0.05  | -5.0  | 0.05  | -3.0  | 0.05  | 0.0   | 0.05  | 2.0   |       |       |       | *     |
| 133.5    | 0.05  | 3.0   | 0.05  | 4.0   | 0.05  | 5.0   | 0.05  | 5.5   |       |       |       | *     |
| 133.5    | 0.05  | 6.0   | 0.05  | 7.0   | 0.05  | 9.0   | 0.05  | 11.0  |       |       |       | *     |
| 133.5    | 0.05  | 13.0  | 0.05  | 15.0  | 0.05  | 17.0  | 0.05  | 19.0  |       |       |       | *     |
| 133.5    | 0.05  | 21.0  | 0.05  | 23.0  | 0.05  | 25.0  | 0.05  | 27.0  |       |       |       | *     |
| 133.5    | -0.05 | 29.0  | 0.05  | 31.0  | 0.05  | 33.0  | 0.05  | 35.0  |       |       |       | *     |
| 133.5    | 0.05  | 37.0  | 0.05  | 39.0  | 0.05  | 41.0  | 0.05  | 43.0  |       |       |       | *     |
| 133.5    | 0.05  | 45.0  | 0.05  | 47.0  | 0.05  | 49.0  | 0.05  | 51.0  |       |       |       | *     |
| 133.5    | 0.05  | 53.0  | 0.05  | 55.0  | 0.05  | 57.0  | 0.05  | 59.0  |       |       |       | *     |
| 133.5    | 0.05  | 61.0  | 0.05  | 63.0  | 0.05  | 64.0  | 0.05  | 65.0  |       |       |       | *     |
| 133.5    | 0.05  | 65.5  | 0.05  | 65.9  | 0.05  | 66.7  | 0.05  | 68.0  |       |       |       | *     |
| 133.5    | 0.05  | 69.7  | 0.05  | 73.0  | 0.05  | 76.0  | 0.05  | 80.0  |       |       |       | *     |
| 133.5    | 0.05  | 85.0  | 0.05  | 88.0  |       |       |       |       |       |       |       | *     |
| 189.7    | -4.7  | 100.0 | 12.0  | 99.1  | 12.4  | 99.6  | 14.0  | 99.6  | 14.4  | 99.3  | 15.2  | 98.8  |
| 189.7    | 17.9  | 98.7  | 18.6  | 99.8  | 20.3  | 98.0  | 22.0  | 97.5  | 23.0  | 97.4  | 24.0  | 97.4  |
| 189.7    | 25.0  | 97.3  | 26.0  | 97.3  | 27.2  | 96.9  | 28.0  | 96.7  | 29.0  | 96.8  | 30.0  | 96.9  |
| 189.7    | 30.8  | 98.0  | 31.8  | 97.4  | 31.9  | 96.4  | 33.0  | 96.5  | 35.5  | 93.8  | 36.8  | 93.9  |
| 189.7    | 45.0  | 92.8  | 47.0  | 92.7  | 49.0  | 93.4  | 51.0  | 93.4  | 53.0  | 92.9  | 55.0  | 92.7  |
| 189.7    | 57.0  | 92.7  | 59.0  | 93.1  | 61.0  | 93.3  | 63.0  | 93.6  | 65.0  | 93.6  | 67.0  | 93.9  |
| 189.7    | 69.0  | 94.0  | 71.0  | 94.1  | 73.0  | 94.2  | 75.0  | 94.5  | 77.0  | 94.6  | 79.0  | 94.7  |
| 189.7    | 81.0  | 95.0  | 83.0  | 95.3  | 84.0  | 95.6  | 85.0  | 96.1  | 85.8  | 96.6  | 86.0  | 97.0  |
| 189.7    | 86.7  | 97.2  | 89.0  | 97.9  | 91.0  | 98.2  | 93.0  | 98.5  | 95.0  | 98.8  | 98.0  | 99.3  |
| 189.7    | 101.0 | 99.9  | 104.0 | 100.0 | 107.0 | 101.0 | 111.0 | 101.0 | 115.0 | 102.0 | 119.0 | 103.1 |
| 189.7    | 123.2 | 103.7 |       |       |       |       |       |       |       |       |       |       |
| 189.7    | 0.05  | -4.7  | 0.05  | 12.0  | 0.05  | 12.4  | 0.05  | 14.0  |       |       |       | *     |
| 189.7    | 0.05  | 14.4  | 0.05  | 15.2  | 0.05  | 17.9  | 0.05  | 18.6  |       |       |       | *     |
| 189.7    | 0.05  | 20.3  | 0.05  | 22.0  | 0.05  | 23.0  | 0.05  | 24.0  |       |       |       | *     |
| 189.7    | 0.05  | 25.0  | 0.05  | 26.0  | 0.05  | 27.2  | 0.05  | 28.0  |       |       |       | *     |
| 189.7    | 0.05  | 29.0  | 0.05  | 30.0  | 0.05  | 30.8  | 0.05  | 31.8  |       |       |       | *     |
| 189.7    | 0.05  | 31.9  | 0.05  | 33.0  | 0.05  | 35.5  | 0.05  | 36.8  |       |       |       | *     |
| 189.7    | 0.05  | 45.0  | -0.05 | 47.0  | 0.05  | 49.0  | 0.05  | 51.0  |       |       |       | *     |
| 189.7    | 0.05  | 53.0  | 0.05  | 55.0  | 0.05  | 57.0  | 0.05  | 59.0  |       |       |       | *     |
| 189.7    | 0.05  | 61.0  | 0.05  | 63.0  | 0.05  | 65.0  | 0.05  | 67.0  |       |       |       | *     |
| 189.7    | 0.05  | 69.0  | 0.05  | 71.0  | 0.05  | 73.0  | 0.05  | 75.0  |       |       |       | *     |
| 189.7    | 0.05  | 77.0  | 0.05  | 79.0  | 0.05  | 81.0  | 0.05  | 83.0  |       |       |       | *     |
| 189.7    | 0.05  | 84.0  | 0.05  | 85.0  | 0.05  | 85.8  | 0.05  | 86.0  |       |       |       | *     |
| 189.7    | 0.05  | 86.7  | 0.05  | 89.0  | 0.05  | 91.0  | 0.05  | 93.0  |       |       |       | *     |
| 189.7    | 0.05  | 95.0  | 0.05  | 98.0  | 0.05  | 101.0 | 0.05  | 104.0 |       |       |       | *     |
| 189.7    | 0.05  | 107.0 | 0.05  | 111.0 | 0.05  | 115.0 | 0.05  | 119.0 |       |       |       | *     |
| 189.7    | 0.05  | 123.2 |       |       |       |       |       |       |       |       |       | *     |

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