

MILLIKEN CREEK

Date 4/18/2002

ID MIL1200

Site Description Milliken Creek at Silverado Country Club

Elevation (ft) 62

Reach Length (ft) 749

Chemical Characteristics

| | | |
|-------------------------|-------|----|
| Water Temp (C/F) | 11.8 | 53 |
| Specific Conductivity | 120 | |
| pH | 7.1 | |
| Dissolved Oxygen (mg/L) | 10.62 | |

Physical Characteristics

(Average values for 3 riffles)

| | |
|--------------------------|------|
| Riffle Length (ft) | 38 |
| Riffle Width (ft) | 11.5 |
| Riffle Depth (ft) | 0.4 |
| Riffle Velocity (ft/sec) | 1.6 |
| Gradient (%) | 2.2 |
| Riffle Substrate (%) | |
| <i>Fines</i> | 5 |
| <i>Gravel</i> | 23 |
| <i>Cobble</i> | 65 |
| <i>Boulder</i> | 7 |
| <i>Bedrock</i> | 0 |

Consolidation Loose

Habitat Characteristics

| | | |
|-----------------------|----|------------|
| Canopy Cover (%) | 58 | |
| <u>Scale 0-20</u> | | |
| Substrate | 13 | Suboptimal |
| Embeddedness | 17 | Optimal |
| Substrate Complexity | 13 | Suboptimal |
| Velocity/Depth Regime | 15 | Suboptimal |
| Sediment Deposition | 19 | Optimal |
| Water Flow | 20 | Optimal |
| Channel Alteration | 17 | Optimal |
| Riffle Frequency | 11 | Suboptimal |

Scale 0-10

| | | |
|------------------------|---|------------|
| Bank Stability (Left) | 6 | Suboptimal |
| Bank Stability (Right) | 5 | Marginal |
| Vegetation (Right) | 5 | Marginal |
| Riparian (Right) | 7 | Suboptimal |
| Vegetation (Left) | 7 | Suboptimal |
| Riparian (Left) | 9 | Optimal |

Total Habitat Score 151 **Optimal**

0-50 = Poor

51-100 = Marginal

101-150 = Suboptimal

151-200 = Optimal



MILLIKEN CREEK

Benthic Macroinvertebrate Characteristics

| | | | | |
|---------------------|--------|---------------------------|-------|---|
| Abundance | 13,949 | Percent Dominant Taxa | 31.79 | Index of Biological Integrity (IBI) 7 5-11 = Poor 12-18 = Fair 19-25 = Good |
| Number of Taxa | 42 | Number of Tolerant Taxa | 3 | |
| Number of Taxa (CA) | 42 | Percent Tolerant Taxa | 14.69 | |
| Number of EPT | 11 | Number of Intolerant Taxa | 6 | |
| Hilsenhoff | 6.43 | Percent Intolerant Taxa | 1.23 | |

