

SULPHUR CREEK

Date 4/23/2002

ID SUL2002

Site Description Downstream from Sulphur Springs Resort

Elevation (ft) 406

Reach Length (ft) 277

Chemical Characteristics

Water Temp (C/F)	16.5	62
Specific Conductivity	405	
pH	6.5	
Dissolved Oxygen (mg/L)	9.75	

Physical Characteristics

(Average values for 3 riffles)

Riffle Length (ft)	28
Riffle Width (ft)	5.8
Riffle Depth (ft)	0.2
Riffle Velocity (ft/sec)	1.3
Gradient (%)	3.4
Riffle Substrate (%)	
<i>Fines</i>	7
<i>Gravel</i>	43
<i>Cobble</i>	42
<i>Boulder</i>	8
<i>Bedrock</i>	0

Consolidation Medium

Habitat Characteristics

Canopy Cover (%)	88	
<u>Scale 0-20</u>		
Substrate	13	Suboptimal
Embeddedness	11	Suboptimal
Substrate Complexity	13	Suboptimal
Velocity/Depth Regime	10	Marginal
Sediment Deposition	15	Suboptimal
Water Flow	20	Optimal
Channel Alteration	18	Optimal
Riffle Frequency	18	Optimal

Scale 0-10

Bank Stability (Left)	9	Optimal
Bank Stability (Right)	7	Suboptimal
Vegetation (Right)	5	Marginal
Riparian (Right)	9	Optimal
Vegetation (Left)	6	Suboptimal
Riparian (Left)	8	Suboptimal

Total Habitat Score 149 Suboptimal

0-50 = Poor

51-100 = Marginal

101-150 = Suboptimal

151-200 = Optimal



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Benthic Macroinvertebrate Characteristics

Abundance	6,286	Percent Dominant Taxa	27.38	Index of Biological Integrity (IBI) 17 5-11 = Poor 12-18 = Fair 19-25 = Good
Number of Taxa	51	Number of Tolerant Taxa	2	
Number of Taxa (CA)	50	Percent Tolerant Taxa	10.36	
Number of EPT	22	Number of Intolerant Taxa	14	
Hilsenhoff	4.77	Percent Intolerant Taxa	36.11	

