

# CHILES CREEK

Date 4/19/2002

ID CHI2002

Site Description Chiles Valley Road

Elevation (ft) 538

Reach Length (ft) 281

## Chemical Characteristics

Water Temp (C/F)	14.1	57
Specific Conductivity	521	
pH	8.5	
Dissolved Oxygen (mg/L)	10.67	

## Physical Characteristics

(Average values for 3 riffles)

Riffle Length (ft)	14.7
Riffle Width (ft)	4
Riffle Depth (ft)	0.53
Riffle Velocity (ft/sec)	1.9
Gradient (%)	0.02
Riffle Substrate (%)	
<i>Fines</i>	8
<i>Gravel</i>	17
<i>Cobble</i>	33
<i>Boulder</i>	32
<i>Bedrock</i>	10

Consolidation Firm

## Habitat Characteristics

Canopy Cover (%)	73	
<u>Scale 0-20</u>		
Substrate	14	Suboptimal
Embeddedness	11	Suboptimal
Substrate Complexity	14	Suboptimal
Velocity/Depth Regime	15	Suboptimal
Sediment Deposition	18	Optimal
Water Flow	20	Optimal
Channel Alteration	12	Suboptimal
Riffle Frequency	15	Suboptimal

## Scale 0-10

Bank Stability (Left)	7	Suboptimal
Bank Stability (Right)	6	Suboptimal
Vegetation (Right)	4	Marginal
Riparian (Right)	4	Marginal
Vegetation (Left)	8	Suboptimal
Riparian (Left)	10	Optimal

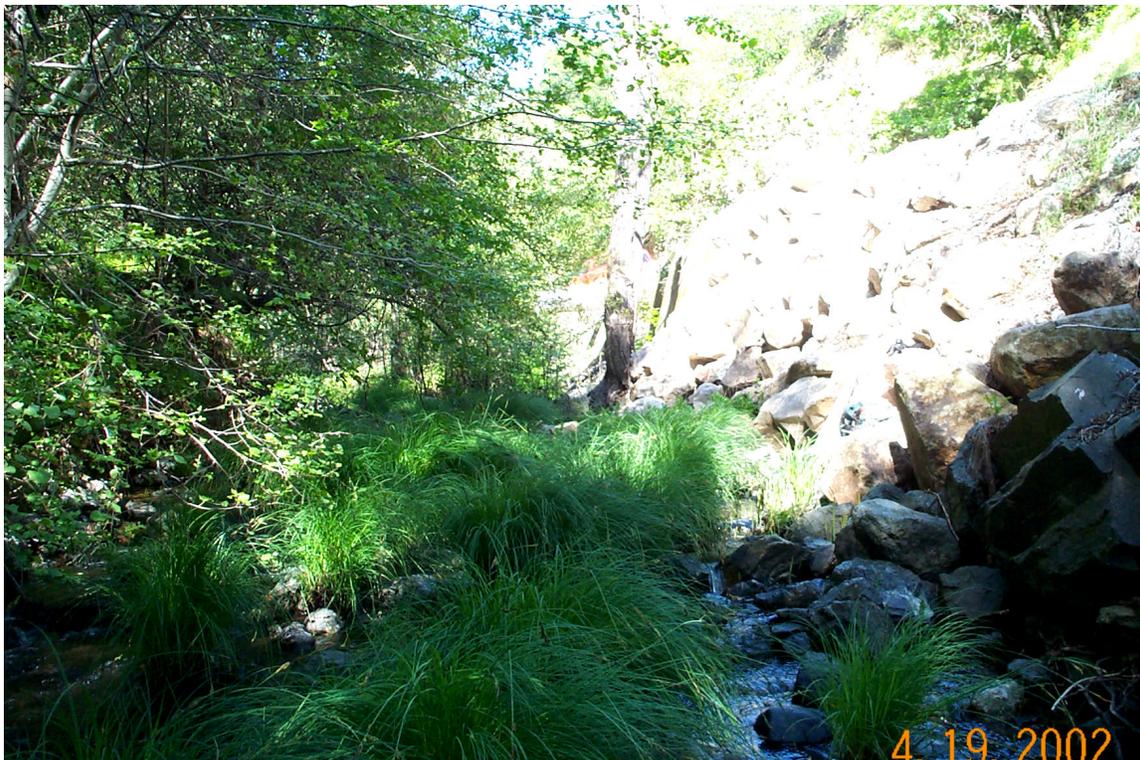
**Total Habitat Score 144 Suboptimal**

0-50 = Poor

51-100 = Marginal

101-150 = Suboptimal

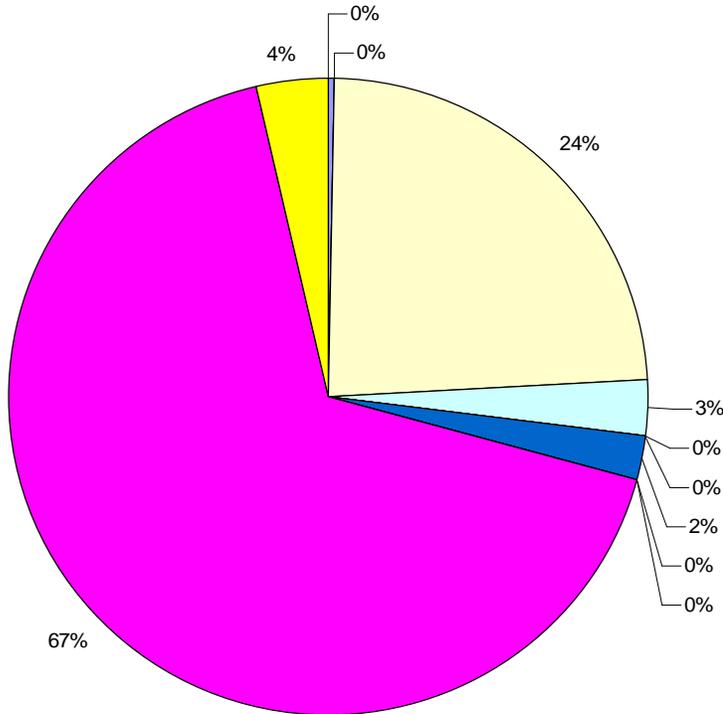
151-200 = Optimal



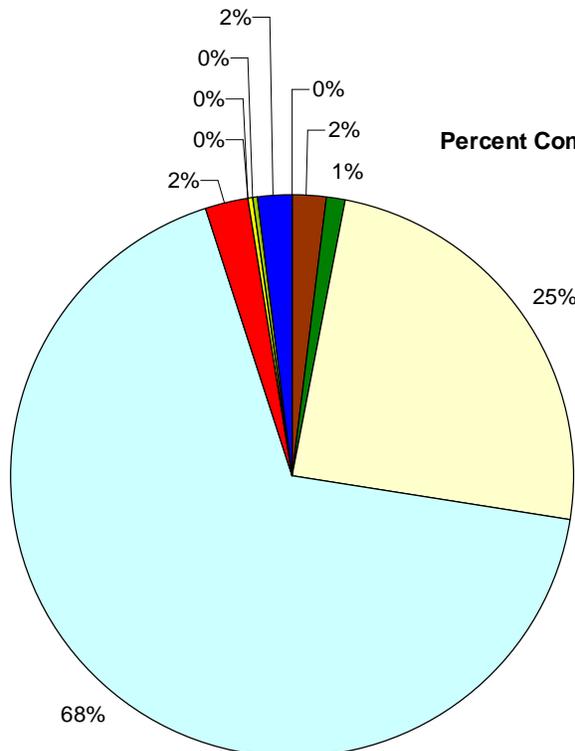
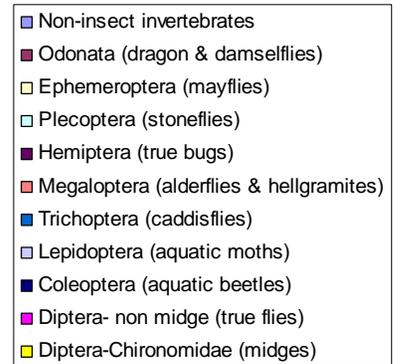
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## Benthic Macroinvertebrate Characteristics

Abundance	15,266	Percent Dominant Taxa	66.92	<b>Index of Biological Integrity (IBI)</b> <b>11</b> 5-11 = Poor 12-18 = Fair 19-25 = Good
Number of Taxa	46	Number of Tolerant Taxa	2	
Number of Taxa (CA)	44	Percent Tolerant Taxa	0.68	
Number of EPT	24	Number of Intolerant Taxa	15	
Hilsenhoff	5.74	Percent Intolerant Taxa	4.66	



Percent Composition by Taxa



Percent Composition by Functional Feeding Group

