

NAPA RIVER - ST. HELENA

Date 5/11/2002

ID NRP2002

Site Description Downstream of Pope Street Bridge

Elevation (ft) 184

Reach Length (ft) 312

Chemical Characteristics

Water Temp (C/F)	16.3	61
Specific Conductivity	296	
pH	6.5	
Dissolved Oxygen (mg/L)	9.42	

Physical Characteristics

(Average values for 3 riffles)

Riffle Length (ft)	21
Riffle Width (ft)	14
Riffle Depth (ft)	0.3
Riffle Velocity (ft/sec)	2.3
Gradient (%)	1.6
Riffle Substrate (%)	
<i>Fines</i>	10
<i>Gravel</i>	57
<i>Cobble</i>	33
<i>Boulder</i>	0
<i>Bedrock</i>	0

Consolidation Loose

Habitat Characteristics

Canopy Cover (%)	28	
<u>Scale 0-20</u>		
Substrate	9	Marginal
Embeddedness	17	Optimal
Substrate Complexity	9	Marginal
Velocity/Depth Regime	14	Suboptimal
Sediment Deposition	14	Suboptimal
Water Flow	20	Optimal
Channel Alteration	9	Marginal
Riffle Frequency	11	Suboptimal
<u>Scale 0-10</u>		
Bank Stability (Left)	9	Optimal
Bank Stability (Right)	7	Suboptimal
Vegetation (Right)	7	Suboptimal
Riparian (Right)	6	Suboptimal
Vegetation (Left)	8	Suboptimal
Riparian (Left)	8	Suboptimal

Total Habitat Score 139 Suboptimal

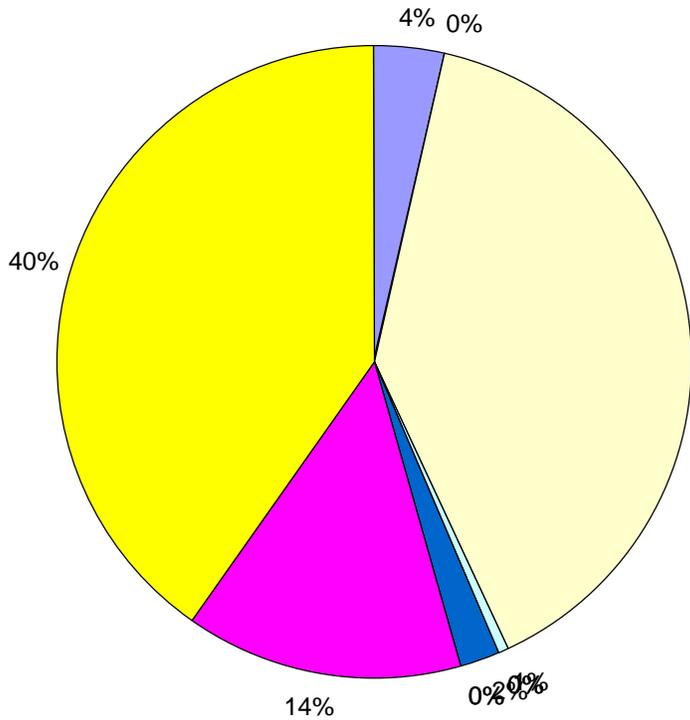
0-50 = Poor
 51-100 = Marginal
 101-150 = Suboptimal
 151-200 = Optimal



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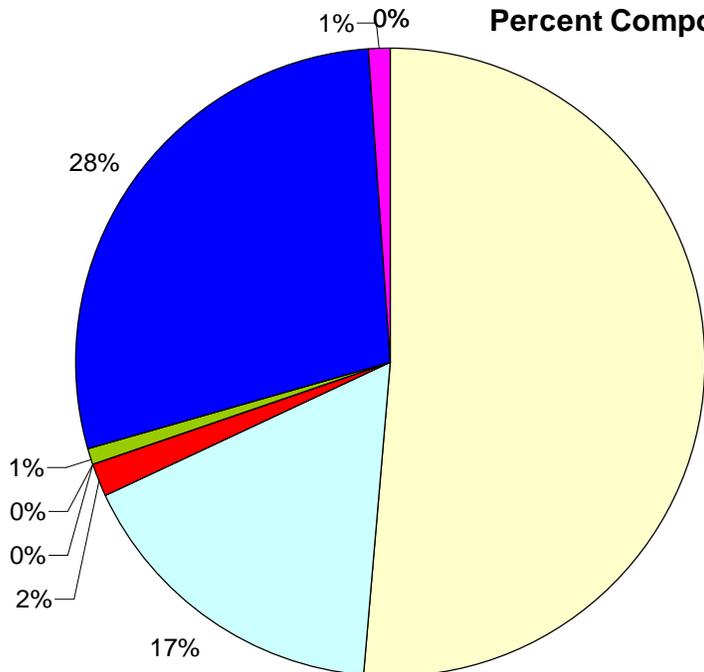
Benthic Macroinvertebrate Characteristics

Abundance	13,051	Percent Dominant Taxa	33.78	Index of Biological Integrity (IBI) 9 5-11 = Poor 12-18 = Fair 19-25 = Good
Number of Taxa	39	Number of Tolerant Taxa	1	
Number of Taxa (CA)	39	Percent Tolerant Taxa	0.29	
Number of EPT	11	Number of Intolerant Taxa	6	
Hilsenhoff	5.67	Percent Intolerant Taxa	5.91	



Percent Composition by Taxa

- Non-insect invertebrates
- Odonata (dragon & damselflies)
- Ephemeroptera (mayflies)
- Plecoptera (stoneflies)
- Hemiptera (true bugs)
- Megaloptera (alderflies & hellgramites)
- Trichoptera (caddisflies)
- Lepidoptera (aquatic moths)
- Coleoptera (aquatic beetles)
- Diptera- non midge (true flies)
- Diptera-Chironomidae (midges)



Percent Composition by Functional Feeding Group

- Shredder
- Scrapper
- Collector-gatherer
- Collector-filterer
- Predator
- Macrophyte-herbivore
- Piercer-herbivore
- Parasite
- Omnivore
- Other