

**BEAR CREEK WATERSHED ASSOCIATION
PHYSICAL STREAM INDICES FIELD SHEET BEAR CREEK WATERSHED**

SITE NAME:		Bear Creek Watershed, Colorado	
BCWA SITE #		Colorado Stream Segment Classification:	
LAT _____ LONG _____		South Platte River Basin Region 3 and 4 Basin Bear Creek	
Web Site: www.bearcreekwatershed.org		Bear Creek Watershed Association	
INVESTIGATORS:			
COMPLETED BY: Bear Creek Watershed Association Board		DATE: _____ TIME: _____ AM PM	Baseline Habitat Survey for BCWA Sampling Locations; Reference Conditions
WEATHER CONDITIONS	Now	Past 24 hours	Has there been a heavy rain in the last 7 days? <input type="radio"/> Yes <input type="radio"/> No
	<input type="radio"/> storm (heavy rain) <input type="radio"/> rain (steady rain) <input type="radio"/> showers (intermittent) <input type="radio"/> % cloud cover <input type="radio"/> clear/sunny	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> % <input type="radio"/>	Air Temperature _____ °C Other _____
SITE LOCATION/MAP	Draw a map of the site and indicate the areas sampled (attach a photograph)		
STREAM CHARACTERIZATION	Stream Subsystem <input type="radio"/> Perennial <input type="radio"/> Intermittent Stream Origin <input type="radio"/> Mainstem <input type="radio"/> Bear Creek Drainage <input type="radio"/> Tributary <input type="radio"/> Turkey Creek Drainage <input type="radio"/> Wetland or fen	Stream Type <input type="radio"/> Coldwater <input type="radio"/> Warm-water Watershed Area 236 sq-miles	

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LOCAL WATERSHED FEATURES	Predominant Surrounding Landuse <input type="checkbox"/> Forest <input type="checkbox"/> Commercial <input type="checkbox"/> Meadow/Pasture <input type="checkbox"/> Open Space <input type="checkbox"/> Large Lot Mix <input type="checkbox"/> Other (list) <input type="checkbox"/> Residential/Urban	Local Watershed NPS Pollution in Tier 1 Buffer <input type="checkbox"/> No evidence <input type="checkbox"/> Some potential sources <input type="checkbox"/> Obvious sources (list) Local Watershed Erosion <input type="checkbox"/> None <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy (photo)
RIPARIAN VEGETATION (100-ft buffer)	Indicate the dominant type and record the dominant species present <input type="checkbox"/> Trees <input type="checkbox"/> Shrubs <input type="checkbox"/> Grasses <input type="checkbox"/> Herbaceous dominant vegetation type present _____	
INSTREAM FEATURES	Estimated Reach Length _____ ft Estimated Stream Width _____ ft Sampling Reach Area _____ ft ² Estimated Stream Depth _____ ft Surface Velocity (at mid-channel) _____ cfs	Canopy Cover <input type="checkbox"/> Open <input type="checkbox"/> Partly shaded <input type="checkbox"/> Shaded High Water Mark _____ ft Proportion of Reach Represented by Stream Morphology Types <input type="checkbox"/> Riffle % <input type="checkbox"/> Run % <input type="checkbox"/> Pool % Channelized <input type="checkbox"/> Yes <input type="checkbox"/> No
VERY LARGE WOODY DEBRIS	LWD _____ ft ² Estimated Density of LWD _____ %/ft ² (LWD/ reach area)	
ROOTED OR FLOATING AQUATIC VEGETATION	Indicate the dominant type and record the dominant species present <input type="checkbox"/> Rooted emergent <input type="checkbox"/> Rooted submergent <input type="checkbox"/> Free floating Dominant species present or photo _____ Portion of the reach with aquatic vegetation(excluding Periphyton) _____%	
WATER QUALITY	Temperature _____ °C Specific Conductance _____ us/m Dissolved Oxygen _____ mg/l pH _____ su WQ Instrument Used ___ YSI Multiprobe _____	Water Odors <input type="checkbox"/> Normal/None <input type="checkbox"/> Sewage <input type="checkbox"/> Petroleum <input type="checkbox"/> Chemical <input type="checkbox"/> Fishy <input type="checkbox"/> Other Water Surface Oils (Visual) <input type="checkbox"/> Slick <input type="checkbox"/> Sheen <input type="checkbox"/> Globbs <input type="checkbox"/> Flecks <input type="checkbox"/> None <input type="checkbox"/> Other Turbidity (visual) <input type="checkbox"/> Clear <input type="checkbox"/> Slightly Murky <input type="checkbox"/> Murky <input type="checkbox"/> Other _____
SEDIMENT/ Periphyton Coverage	Pebble Count <input type="checkbox"/> Yes <input type="checkbox"/> No Estimate Embeddedness (%) Periphyton on Rocks <input type="checkbox"/> <5% <input type="checkbox"/> 5-15% <input type="checkbox"/> 15-25% <input type="checkbox"/> Profuse >25%	Deposits on Substrate <input type="checkbox"/> Sludge <input type="checkbox"/> Organic <input type="checkbox"/> Trash <input type="checkbox"/> Silt/clay <input type="checkbox"/> Odors (list) Looking at stones which are not deeply embedded, are the undersides black in color? <input type="checkbox"/> Yes <input type="checkbox"/> No

INORGANIC SUBSTRATE COMPONENTS (If No Pebble Count, Then Rough Estimate)			SMALLER ORGANIC SUBSTRATE COMPONENTS (does not necessarily add up to 100%)		
Substrate Type	Diameter	% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area
Bedrock			Detritus	sticks, wood, coarse plant materials (CPOM)	
Boulder	> 256 mm (10")				
Cobble	64-256 mm (2.5"-10")		Muck-Mud	black, very fine organic (FPOM)	
Gravel	2-64 mm (0.1"-2.5")				
Sand	0.06-2mm (gritty)		Other	Define:	
Silt/Clay	0.004-0.06 mm				
	Total				