Uncompahgre Watershed—Water Quality Field Data Sheet

Sampling Team Names:	**Sampling Date:**
Sampling Location: River name & description: circle name of site: Confluence of Dallas and Unc. Rollans Park Ouray River Walk North side of the dam Other _____	

Stream Health Prediction: (circle choice based on initial observation)
Excellent Good Fair Poor

Description of impacts to the waterway: (exps. Human, wildlife, natural) Be specific about observations

_____

_____

_____

OBSERVATIONS:

Sampling Site (circle all that apply) pool riffle braided rapid confluence	**Stream Color** (circle one) Brown blue grey green clear other_____
Stream Bottom (circle all that apply) Bedrock cobble gravel sand silt	**Bank** (circle all that apply) Trees bushes/shrubs grasses eroded rocks other_____

Sketch the Landscape from an Aerial View (riverbanks, pools, riffles, vegetation, log/stick piles, rocks)

Abiotic Factors: Note *G= take sample as a group; I= take sample individually*

PROPERTY	RESULT	NOTES
Water Temperature	_____ C/F	
Turbidity (G)	_____	
Conductivity (G)		
Dissolved Oxygen (G) Range 1-12 ppm		
pH (I) Range 0-14	_____ SU	

Biotic Factors: Use the Macroinvertebrate Species Indicator tally sheet to complete the Biotic Index below.

Instructions for Determining the Biotic Index
The number of animals found is not important; rather, the variety of types of macroinvertebrates and their tolerance to pollution tells us the biotic index score.

1. Use the *Key to Macroinvertebrate Life in the River* or the Biotic Index Tally sheet for identification.
2. Circle the animals on the index that match those found in your sample/s.
3. Count the number of types of animals that are circled in each group and write that number in the box provided. **Do not count individual animals in your sample. Only count the number of types of animals circled in each group.**
4. Enter each boxed number in the work area below.
5. Multiply the entered number from each group by the group value.
6. Do this for all groups.
7. Total the number of animals circled.
8. Total the calculated values for all groups.
9. Divide the total values by the total number of types of animals that were found: TOTAL VALUES (b) divided by TOTAL ANIMALS (a).
10. Record this number.

TURN SHEET OVER AND DO THE MATH

SHOW ALL MATH (Use extra space below to do your math computations)

No. of animals circled from group 1 =	_____	x 4 =	_____
No. of animals circled from group 2 =	_____	x 3 =	_____
No. of animals circled from group 3 =	_____	x 2 =	_____
No. of animals circled from group 4 =	_____	x 1 =	_____
	_____		_____
	Total animals (a)		Total value (b)

Divide totaled value (b)_____ by total number of animals (a) _____for index score:

Index score:

How Healthy is the stream?	
Excellent	3.6+
Good	2.6 - 3.5
Fair	2.1 - 2.5
Poor	1.0 - 2.0

Reference: ***River Action Volunteers*** watermonitoring.uwex.edu/wav/monitoring/sheets.html