Volunteer Monitoring Data Sheet

Trained Volunteer(s)_____

Other Volunteer(s)_____

Name of stream or river_____ County_____

Site Number/Location _____

_____

Basin_____ Date_____ Time (start)_____ (stop)_____

Current Weather

Clear/Sunny___
Overcast___
Showers (intermittent rain)___
Rain (steady rain)___
Storm (heavy rain)___

Recent Weather

Clear/Sunny___
Overcast___
Showers (intermittent rain)___
Rain (steady rain)___
Storm (heavy rain)___

VISUAL DATA

Water conditions

Water Color	*Water Odor*	*Surface Coating*	*Streambed Coating*
clear___	rotten egg___	scum___	orange-red___
milky___	sewage___	foam___	green___
green/blue-green___	fishy___	oily___	black___
reddish___	chlorine___	none___	brown___
brown/tea___	musky___		grayish-white___
muddy___	petroleum___		yellow___
other (specify)	none___		none___
_____	_____	_____	_____

Aquatic Vegetation

Algae Abundance	*Algae Location*	*Algae Colors*	*Other Aquatic Plants*
most places___	streambed___	brown___	most places___
some spots___	surface___	dark green___	some spots___
none or very rare___		light green___	none or very rare___

CHEMICAL DATA – *all measurements (except temperature)should be taken twice*
Parts per million (ppm) is equivalent to milligrams per liter (mg/L)
Use chart in standard operating procedures to find mg/L in total suspended solids.
Record inches and mg/L.

Parameter	**Measurement 1**		**Measurement 2**		**Measurement 3** (if necessary)	
Air Temperature (ºC)						
Water Temperature (ºC)						
pH						
Alkalinity (mg/L)						
Dissolved Oxygen (mg/L)						
Nitrate-Nitrogen (mg/L)						
Turbidity Tube Reading (inches)		Inches		Inches		Inches
Total Suspended Solids (mg/L)		mg/L		mg/L		mg/L

To find mg/L orthophosphate (PO_4) on the low range test, divide the wheel reading by 50. For the mid range test, divide the wheel reading by 10. For the high range test, the wheel reading is equivalent to the mg/L PO_4. To find the mg/L orthophosphate-P (PO_4-P), for all tests, divide the calculated mg/L PO_4 value by 3.

Orthophosphate (mg/L)		Wheel reading		Wheel reading		Wheel reading
Test Range (circle): low mid high		mg/L PO_4		mg/L PO_4		mg/L PO_4
		mg/L PO_4-P		mg/L PO_4-P		mg/L PO_4-P

STREAM FLOW

To convert depth in feet and inches to decimal feet, divide the number of inches by 12. For example, to convert 2’ 5.5”:

5.5 ÷ 12 = 0.46

therefore, 2’ 5.5” = 2.46 ft

	Depth (ft)	Travel Time (sec)	Velocity (20ft ÷ time) (ft/sec)
Edge	0	---------	----------
1/4 distance across			
1/2 distance across			
3/4 distance across			
Average	(D)	----------	(V)

Width of stream = _____ ft (W)

Correction factor = 0.8 for rocky streams, 0.9 for muddy streams (C)

Flow = Average Depth x Width x Average Velocity x Correction factor

Flow = _____ x _____ x _____ x _____ = _____ ft^3/sec

(D) (W) (V) (C)

Problems/Notes/Observations

_____

_____

_____

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