



## Physical Inventory Data Sheet Stream and Bank

### General

Date:

Name of Stream or River (or other water body):

Site Name or Number:

Site Location (be specific):

Latitude and Longitude:

Watershed:

Nearest Town:

Country:

State, Region or Province:

Monitors:

Organization:

School:

Class:

Names:

Time:

Weather:

Today:

Previous 2 days:

Date of Last Precipitation:

Air Temperature (°C):

Estimated Elevation:

### Channel Characteristics (water column)

Stream Habitat (check if present): (record depth)

Riffle (small waves on surface) \_\_\_\_\_, Glide (smooth moving water) \_\_\_\_\_,

Pool (still water) \_\_\_\_\_

Water Temp (°C) sample 2x and take average: a) \_\_\_\_\_ b) \_\_\_\_\_ Average \_\_\_\_\_

Average Width (m)

sample 1x: \_\_\_\_\_

estimate:

Average Depth (m)

sample 3x and take average: a) \_\_\_\_\_ b) \_\_\_\_\_ c) \_\_\_\_\_ Average \_\_\_\_\_

estimate:

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Average Velocity in ft/sec - time it takes a float to travel 10 ft (*doing it in feet to match USGS; need divide symbol*)

sample 2x and take average

a. 10 ft. / \_\_\_\_\_(sec) = v1 \_\_\_\_\_(ft/sec)

b. 10 ft. / \_\_\_\_\_(sec) = v2 \_\_\_\_\_(ft/sec)

Average =  $[(v1 + v2) / 2] =$  \_\_\_\_\_

Relative Flow - relative to your estimate of year round average

present flow: high \_\_\_\_\_, average \_\_\_\_\_, low \_\_\_\_\_

previous 2 days: high \_\_\_\_\_, average \_\_\_\_\_, low \_\_\_\_\_

Sediment deposits:

sludge \_\_\_\_\_, sawdust \_\_\_\_\_, sand \_\_\_\_\_, paper fiber \_\_\_\_\_, other \_\_\_\_\_, no unusual deposits \_\_\_\_\_

Does the water smell of: sewage \_\_\_\_\_, oil \_\_\_\_\_, chlorine \_\_\_\_\_, rotten eggs \_\_\_\_\_, other \_\_\_\_\_, no unusual smells

faint, distinct, strong (for each option)

Does the soil smell of: sewage \_\_\_\_\_, oil \_\_\_\_\_, chlorine \_\_\_\_\_, rotten eggs \_\_\_\_\_, other \_\_\_\_\_, no unusual smells \_\_\_\_\_

faint, distinct, strong (for each option)

Water appearance:

green \_\_\_\_\_, foam \_\_\_\_\_, multi-color \_\_\_\_\_, milky \_\_\_\_\_, cloudy \_\_\_\_\_, muddy \_\_\_\_\_, clear \_\_\_\_\_, tea \_\_\_\_\_, other \_\_\_\_\_

Algal growth - percent of bottom covered:

>75% \_\_\_\_\_, 50%-75% \_\_\_\_\_, 25%-50% \_\_\_\_\_, 0%-25% \_\_\_\_\_, none \_\_\_\_\_.

Does the river appear to be straightened or channelized? - Y or N Describe

Upstream dam? - Y or N How far upstream is the dam?

Are there wastewater treatment plant discharges upstream? Y or N Distance:

Do you see pipes emptying directly into or near the water? Y or No How many?

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### Habitat Characteristics (bottom and habitat)

Substrate composition - the composition of the streambed in the area of your sample):

%Bedrock \_\_\_\_\_, %Boulder (>10") \_\_\_\_\_, %Cobble (2-10") \_\_\_\_\_, %Gravel (.1-2") \_\_\_\_\_,  
%Sand (<.1) \_\_\_\_\_, %Silt (easily suspended) \_\_\_\_\_, %Organic Debris \_\_\_\_\_

Embeddedness - percent surface area of larger particles (boulder, cobble, or gravel) surrounded or covered by fine sediment (sand or silt).

<5% \_\_\_\_\_, 5-25% \_\_\_\_\_, 25-50% \_\_\_\_\_, 50-75% \_\_\_\_\_, >75% \_\_\_\_\_

Overhead Canopy - percentage of stream width covered or shadowed by overhanging grasses, shrubs and trees.

<5% \_\_\_\_\_, 5-25% \_\_\_\_\_, 25-50% \_\_\_\_\_, 50-75% \_\_\_\_\_, >75% \_\_\_\_\_

### Streambank Characteristics

Left Bank - facing upstream

shrubs \_\_\_\_\_%, grass \_\_\_\_\_%, conifer \_\_\_\_\_%, deciduous \_\_\_\_\_%, unvegetated \_\_\_\_\_%  
Is upstream bank unstable or eroding into stream? y/n \_\_\_\_\_

Right Bank - facing upstream

shrubs \_\_\_\_\_%, grass \_\_\_\_\_%, conifer \_\_\_\_\_%, deciduous \_\_\_\_\_%, unvegetated \_\_\_\_\_%  
Is upstream bank unstable or eroding into stream? y/n \_\_\_\_\_

Streambank vegetation - Is streambank vegetation:

- \_\_\_\_\_ native vegetation in undisturbed state
- \_\_\_\_\_ mostly native vegetation mildly disturbed
- \_\_\_\_\_ native vegetation moderately disturbed
- \_\_\_\_\_ exotics, native vegetation severely disturbed

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