



PHYSICAL SURVEY FORM

Section 1: General Information

School: _____ Teacher(s): _____

Date: _____ Time: _____ Township / City: _____ County: _____

Test location: _____

River Branch: _____ Tributary: _____

If the access point to this site is a road crossing, does a road ditch discharge directly into the stream at the crossing?

yes no

Section 2: Weather Conditions

sunny partly cloudy cloudy rain

Any precipitation in the last 5 days? yes no If yes, approximate amount: _____

Air temperature: _____ °C Water temperature: _____ °C

Section 3: Stream Habitat

3.1) Average stream width (**0.1ft**): _____ 1. _____ + 2. _____ + 3. _____ = _____ ÷ 3

Average stream depth (**0.1ft**): _____ 1. _____ + 2. _____ + 3. _____ = _____ ÷ 3

3.2) Surface water velocity (**0.1 ft / sec**): _____

distance (**0.1 ft**): _____ distance (**0.1 ft**): _____ distance (**0.1 ft**): _____

time (sec): _____ time (sec): _____ time (sec): _____

Test 1 velocity: _____ + Test 2 velocity: _____ + Test 3 velocity: _____ = _____ ÷ 3

3.3) Estimated flow (width x depth x velocity): _____

3.4) Has the stream been channelized? yes no

3.5) Dominant watershed soil type: clay loam / sand organic

3.6) Water clarity / coloration (describe): _____ Water odor (describe): _____

3.7) Trash in stream along banks? yes no

Trash / debris in trees (or shrubs) above stream? yes no

3.8) Substrate (**Rank** relative abundance; 1 = most common, 2 = next most abundant, etc. Leave blank if absent)

- _____ Clay
- _____ Silt
- _____ Sand
- _____ Gravel (0.25" - 2")
- _____ Cobble (2" - 10")
- _____ Boulder (>10")

3.9) Obvious Siltation?

yes
 no

3.10) Substrate Embeddedness

- completely (100%)
- mostly (99 - 67%)
- somewhat (66 - 34%)
- little / none (33 - 0%)

3.11) Riparian Vegetation (Rank relative abundance; 1 = most abundant, 2 = next most abundant, etc. Leave blank if absent)

_____ Trees
_____ Shrubs
_____ Herbaceous plants
_____ Grass
_____ Bare

3.12) Stream Shading

100 - 76%
 75 - 51%
 50 - 26%
 25 - 0%

3.13) Bank Erosion

extensive
 moderate
 little / none

Other (please describe): _____

3.14) Estimated width of riparian vegetation corridor (ft): _____

3.15) Stream Habitat (mark if present)

riffles
 runs
 pools
 eddies

3.16) Woody Debris

abundant
 common
 rare
 none

3.17) Dams present: yes no If yes: man-made beaver / log jam

3.18) Aquatic plants: periphyton filamentous algae macrophytes

Are any of these plants very abundant? yes no Which one(s)? periphyton
 filamentous algae
 macrophytes

3.19) Surrounding Land Use: (Rank relative abundance; 1 = most abundant, 2 = next most abundant, etc. Leave blank if absent)

_____ Woodland _____ Wetland _____ Open field
_____ Farmland _____ Residential _____ Commercial

Other (please describe): _____

3.20) Any obvious pollution sources? yes no

If yes, please describe:

3.21) During the sampling and evaluation, did you observe any fish or wildlife? yes no

If yes, please describe (if possible):

3.22) Other observations:

3.23) Attach any photos to survey form (downstream, upstream, and others of interest).