



Visual Assessment

(Middle School)

School/site: _____

Investigator(s): _____

Date & Time: _____

Check off the most accurate description:

Current Weather Conditions

- Sunny
- Partly Cloudy
- Overcast
- Rain
- Snow
- Snowmelt

Time Since Last Rain or Snow

- Today
- 1-2 days ago
- More than 2 days ago
- Unknown

Air Temperature _____ °C

Water Conditions: (Circle the term that best describes what you see)

Smell	No Smell Stinky Rotten Eggs Poop Gasoline Other: _____
Color	Clear Green Blue-Green Brown Yellow Gray Other: _____
Turbidity (Water Clarity)	Clear Slightly Cloudy Cloudy (Muddy) Milky Other: _____
Surface Coating	Foam Scum "Paint" streaks Duckweed/Vegetation Oil None Other: _____
Water Movement	<u>Streams</u> Slow Moderate Swift Rapids <u>Lakes</u> Still Ripples Waves Choppy

Land Use Characteristics: (Circle term that best describes what you see)

Natural	Houses, schools, lawns, roads	Hiking trails, parks, golfing	Farms	Factories, mines, power plants
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Stream Characteristics: (Circle term that best describes what you see)

Tree Canopy	Open (0-25%) Mostly open (25-50%) Mostly closed (50-75%) Closed (75-100%)
Woody Debris (sticks, roots, fallen trees in the stream)	None Rare Some Many
Aquatic Vegetation	None Rare Some Many
Algae	None Rare Some Many

Additional Observations / Sketch:



Biological Assessment
(Middle School)

Macroinvertebrate Habitat Type (check off all that apply)

- Woody debris
 Submerged logs
 Leaf packs
 Aquatic vegetation
 Undercut banks
 Riffles/Cobble
 Gravel/Sand

Benthic Macroinvertebrate Identification and Scoring check off all that apply)

Pollution Intolerant	Pollution Sensitive	Pollution Tolerant
<input type="checkbox"/> Stoneflies <input type="checkbox"/> Case-building caddisflies <input type="checkbox"/> Mayflies <input type="checkbox"/> Gilled snails (Right-handed snails) <input type="checkbox"/> Dobsonflies/Fishflies <input type="checkbox"/> Riffle beetles (larvae + adults) <input type="checkbox"/> Water pennies <input type="checkbox"/> Watersnipe flies	<input type="checkbox"/> Net-spinning caddisflies <input type="checkbox"/> Alderflies <input type="checkbox"/> Crayfish <input type="checkbox"/> Scuds <input type="checkbox"/> Dragonflies <input type="checkbox"/> Damselflies <input type="checkbox"/> Clams/Mussels <input type="checkbox"/> Sowbugs	<input type="checkbox"/> Midges <input type="checkbox"/> Black fly larvae <input type="checkbox"/> Planarians <input type="checkbox"/> Leeches <input type="checkbox"/> Lunged snails (Left-handed snails)
___ # of checks x 3 = ___	___ # of checks x 2 = ___	___ # of checks x 1 = ___

Add the total from each column for your water quality rating = ___

Water Quality Rating (check off the rating that matches your data)

- Excellent (>22)
 Good (17-22)
 Fair (11-16)
 Poor (<11)

Additional Observations:



Chemical Assessment
(Middle School)

Chemical Assessment (circle or write the best answer)

Water temperature: _____°C

Nitrate (ppm):

0 ppm 1 ppm 2 ppm 4 ppm 5 ppm 6 ppm 8 ppm 10 ppm 15 ppm
20 ppm >20ppm (write the value here) _____ppm

Phosphate (ppm):

0 ppm 0.2 ppm 0.4 ppm 0.5 ppm 0.6 ppm 0.8 ppm 1 ppm 1.5 ppm
2 ppm >2 ppm (write the value here) _____ppm

pH:

4 5 6 7 8 9 10 11

Turbidity (JTU):

0 JTU 5 JTU 10 JTU 15 JTU 20 JTU 25 JTU 30 JTU 35 JTU 40 JTU
>40 JTU (write the value here) _____JTU

Dissolved Oxygen (ppm):

0 ppm 1 ppm 2 ppm 3 ppm 4 ppm 5 ppm 6 ppm 7 ppm 8 ppm
9 ppm 10 ppm 11 ppm 12 ppm

Salinity (ppt):
