CREEK CONNECTIONS

Data Collection Sheet

Sample Date: _____/____/_____  Sampling Site Number:_______  Sampling time _____:_____

Site Name____________________________________________________  School_____________________________

Names of Testers / Class ____________________________________________  ____________________________

Observations: *Creek Appearance (velocity, color, frozen, etc.)_________________________________________________

*Weather in past 48 hrs (rain, snow, etc.) _________________________________________________________________

*Relative Depth (higher/lower than normal, etc.) ______________________________________________________________

HYPOTHESIS (optional) _______________________________________________________________________________

_____________________________________________________________________________________________________

FIELD TESTS  (To be conducted on-site)

Average

___°C  ☑ TEMPERATURE:
   Sample A: ____°C  Sample B: ____°C

___  ☑ pH (normal range 6-9):
   Sample A: _____  Sample B: _____

___mg/L  ☑ TOTAL DISSOLVED SOLIDS (TDS) (normal range 60-460mg/L):
   Sample A: _____mg/L  Sample B: _____ mg/L

_____µS/cm  ☑ Conductivity (Double check units, could also be mS/cm)(normal range 150-500 µS/cm):
   Sample A: _____ µS/cm  Sample B: _____ µS/cm

___mg/L  ☑ DISSOLVED OXYGEN (DO) (normal range 6-14mg/L):
   # of drops for A: _____mg/L  # of drops for B: _____mg/L

LABORATORY TESTS  (To be completed within 24 hours)

Average

___mg/L  ☑ NITRATE-NITROGEN (normal range 0-2.6mg/L):
   Low Range (0-1 mg/L) OR High Range (0-10 mg/L)
   Reading for A:____mg/L  Reading for A:____ x 10 = _____mg/L
   Reading for B:____mg/L  Reading for B:____ x 10 = _____mg/L

___mg/L  ☑ TOTAL PHOSPHOROUS (normal range 0-0.43mg/L):
   Low Range (0-1 mg/L)
   Reading for A:(____ / 150) = ______mg/L
   Reading for B:(____ / 150) = ______mg/L

___mg/L  ☑ TOTAL ALKALINITY (normal range 20-200mg/L):
   High Range OR Low Range
   # of drops for A:____x17= _____mg/L  # of drops for A:____ x6.8= _____mg/L
   # of drops for B:____x17= _____mg/L  # of drops for B:____ x6.8= _____mg/L

___JTU  ☑ TURBIDITY (normal range 0-45JTU):
   Low Range (50mL sample) OR High Range (25mL sample)
   # of 0.5 mL additions to A:____ x5=_____JTU  # of 0.5 mL additions to A:____ x10=_____JTU
   # of 0.5 mL additions to B:____ x5=_____JTU  # of 0.5 mL additions to B:____ x10=_____JTU
OPTIONAL TESTS

Average

____mg/L  • FERROUS IRON:
Reading for A: _____mg/L
Reading for B: _____mg/L

____

• OTHER TEST: ______________________________________

Sample A: __________________
Sample B: __________________ (please give units)

SUPPLEMENTAL FIELD TESTS (not mandatory)

____ m  • Stage

____ m/s  • Flow Rate

____ m³/s  • Discharge

____  • Riparian, Channel, and Environmental Inventory Score: Possible scores: 16-360

____  • Pollution Tolerance Index Value (macroinvertebrate sampling)

Optional: WATER QUALITY INDEX – use average values of each parameter for calculation

WQI score = 10 + ( | pH - 7.5| x 8) + ( N x 10) + ( P x 15) + ( turbidity x 0.2) - ( DO x 0.7)

= 10 + ( _____ - 7.5| x 8) + (____ x 10) + (_____ x 15) + (_______ x 0.2) - (______ x 0.7)

Did anything interesting happen when you were out sampling? What else did you do at the waterway besides the chemistry tests? Did you see anything unique? Did any of your results puzzle you? Let us know below...

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