Water Action Volunteers Stream Monitoring Data Recording Form - Version 2015.1.4

Station Info

WAV Station Number*: 10055666 Date*: 10/15/2023 Time*: 11:30 AM or PM

WAV Station Name*: Tamarack Cr

Team Member Name(s)*: Christine Culligan

*Denotes required field

Weather

Weather: (circle one) Sunny Partly Sunny (Cloudy) Rain Thunderstorm Snow

Sampling Date: (circle one) Primary Safety Other

Weather over past two days: Cloudy - drizzle

Current Stream Condition : (circle one) (Normal) Flooding Dry Stagnant Frozen Other

Observations: Browner than usual - still transparent

WAV Monitoring Parameters

Parameters Tested	Your Results				Units
Air Temperature	53°F ⇒ 11.7°C				°C
Water Temperature	9.0 C				°C
Dissolved Oxygen (D.O.) Sampling Method	Circle One: Hach Kit	LaMotte Kit	YSI 550/ Meter	Other: YSI pro ODO	-
D.O. mg/L	No. of Titration Drops: ____	No. of Plastic Measuring Tubes: ____	Dissolved Oxygen Content: 11.0 last reading on DO meter		mg/L
D.O. % Saturation	95 %				%
pH					-
Transparency	Tube Length (circle one)	Trial #1	Trial #2	Average	-
	60 cm 100 cm (120 cm)	120	120	120	cm
Specific Conductance	ECTestr reading: ____ ms/cm or µS/cm (*circle units displayed*)				
Chloride Sample	Collected? Y X N ____ Point/Outfall Number: ____				
Total Phosphorus Sample	Collected? Y ____ N ____ Point/Outfall Number: ____				

Streamflow Monitoring

Streamflow was monitored this sampling event (select one): Yes X No ____

If No, why not? ____

Length Assessed: 20 ft

Stream Width*: 18-20 ft

*If stream ≤ 20 ft. wide, measure depth every foot across the width. If stream is > 20 ft. wide, measure depth at 20 equal intervals across the entire width

Adjusted to point to be by DSA b/c stream is >18ft wide CAH

Stream Depth Measurements

Point	Depth 10ths Feet	Point	Depth 10ths Feet
1	0.5	11	1.3
2	0.5	12	1.6
3	0.9	13	1.2
4	1.2	14	.9
5	1.1	15	.6
6	1.3	16	.5
7	1.2	17	.5
8	1.4	18	
9	1.5	19	
10	1.2	20	

Depth Conversion Chart

Ft/In	10ths Ft	Ft/In	10ths Ft
3/8-7/8	0.05	6 3/8-6 7/8	0.55
1-1 1/2	0.1	7-7 3/8	0.6
1 5/8-2	0.15	7 1/2-8	0.65
2 1/8-2 5/8	0.2	8 1/8-8 5/8	0.7
2 3/4-3 1/4	0.25	8 3/4-9 1/4	0.75
3 3/8-3 7/8	0.3	9 3/8-9 7/8	0.8
4-4 3/8	0.35	10-10 3/8	0.85
4 1/2-5	0.4	10 1/2-11	0.9
5 1/8-5 5/8	0.45	11 1/8-11 5/8	0.95
5 3/4-6 1/4	0.5	11 3/4-12	1.0

Velocity Float Trials

Trial Number	Time (Seconds)
1	24.1
2	18.0
3	22.0
4	21.4

Velocity Correction Factor

Circle the bottom type

Rough	0.8
(Smooth)	0.9

Monitoring Equipment Calibration

DO Meter: Yes X No ____

pH Meter: Yes ____ No ____

ECTestr Yes ____ No ____

Equipment Cleaning and Disinfection

Boots/Waders/Footwear and other monitoring materials cleaned and disinfected? Yes X No ____

Expected Ranges for Parameters ☺

H2O Temperature:	12-30 °C
Dissolved Oxygen:	3-7 mg/L
D.O % Saturation:	90-110 %
pH:	6.0-9.0
Transparency Tube:	≤120 cm

Thermistor

Serial #: _____ **Type:** ☐ **HOBO** (long grey) ☐ **TIDBIT** (yellow) ☐ **TIDBIT V2** (orange)

Activity Performed (circle one): Deployment Retrieval Monthly Check

Deployment/Retrieval Time:_____AM or PM | **Monthly Check - thermistor submersed?** Yes____No____

Describe location of thermistor if you deployed it today, or action(s) taken if thermistor was not submersed:

Biotic Index *(monitored in May and late September/early October)*

**You may use the *Key to Macroinvertebrate Life in the River* to help you identify macroinvertebrates

Group 1: These are sensitive to pollutants. Circle each animal found.


Stonefly Larva


Dobsonfly Larva


Alderfly Larva


Water Snipe Fly Larva

No. of group 1 animals circled: ☐

Relative Size Key:
= larger than picture
= smaller than picture

Group 2: These are semi-sensitive to pollutants. Circle each animal found.


Caddisfly Larva*
*All Caddisfly Larva = 1

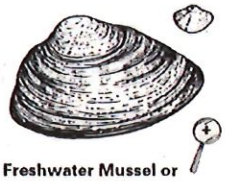

Dragonfly Larva


Water Penny

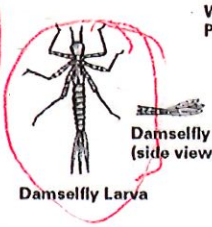

Crawfish

No. of group 2 animals circled: ☐


Crane Fly Larvae


Freshwater Mussel or Fingernail clam


Mayfly Larva


Damselfly tail (side view)
Damselfly Larva


Riffle Beetle Larva*
Riffle Beetle Adult*
*All Riffle Beetles = 1

Group 3: These are semi-tolerant of pollutants. Circle each animal found.


Black Fly Larva


Non-Red Midge Larva


Snails: Orb or Gilled (right side opening)
*All Snails = 1


Amphipod or Scud

No. of group 3 animals circled: ☐

Group 4: These are tolerant of pollutants. Circle each animal found.


Pouch Snail (left side opening)


Isopod or Aquatic Sowbug


Bloodworm Midge Larva (red)

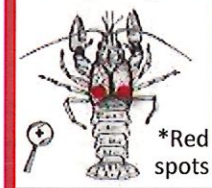

Leech


Tubifex Worm

No. of group 4 animals circled: ☐

Key Aquatic Invasive Species (AIS)
Circle AIS shown below if you think you found any:

Rusty Crayfish


*Red spots

Asian Clam

New Zealand Mudsnail

Faucet Snail

If found, collect voucher or photo and report to DNR or WAV Coordinator.

Date data entered into SWIMS? 11/30/23 Data Entry Volunteer Initials: CMH

Download and print data sheets from www.wateractionvolunteers.org. For more information, call (608) 331-0173 or email wav@extension.wisc.edu.