

Water Action Volunteers Stream Monitoring Data Recording Form - Version 2015.1.4

Station Info
 WAV Station Number*: 10055666 Date*: 10/19/2021 Time*: 1 PM AM or PM
 WAV Station Name*: Tamarack Creek ~ 550 M OS Tamarack Road
 Team Member Name(s)*: Christine Calligan

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

Parameters Tested	Your Results				Units
Air Temperature	<u>68 F</u>				°C
Water Temperature	<u>48.5 F</u>				°C
Dissolved Oxygen (D.O.) Sampling Method	Circle One:	Hach Kit	LaMotte Kit	YSI 550A Meter	Other: <u>YSI PRODO</u>
D.O. mg/L	No. of Titration Drops:	No. of Plastic Measuring Tubes:		Dissolved Oxygen Content:	mg/L
D.O. % Saturation	<u>96</u>				%
pH					-
					-
Transparency	Tube Length (circle one)		Trial #1	Trial #2	Average
	60 cm	100 cm	<u>120 cm</u>	<u>>120</u>	<u>7120</u>
Specific Conductance	ECTestr reading: _____ ms/cm or μ S/cm (circle units displayed)				
Chloride Sample	Collected? Y ___ N <u>X</u> Point/Outfall Number: _____				
Total Phosphorus Sample	Collected? Y ___ N <u>X</u> Point/Outfall Number: _____				

Streamflow was monitored this sampling event (select one): Yes ___ No ___								Length Assessed: <u>20</u> ft											
If No, why not? _____								Stream Width*: <u>22</u> ft											
Stream Depth Measurements								*If stream \leq 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 Velocity Float Trials <table border="1"> <thead> <tr> <th>Trial Number</th> <th>Time (Seconds)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td><u>7.21</u></td> </tr> <tr> <td>2</td> <td><u>8.56</u></td> </tr> <tr> <td>3</td> <td><u>7.51</u></td> </tr> <tr> <td>4</td> <td><u>15.02</u></td> </tr> </tbody> </table>		Trial Number	Time (Seconds)	1	<u>7.21</u>	2	<u>8.56</u>	3	<u>7.51</u>	4	<u>15.02</u>
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Point	Depth	Point	Depth	Depth Conversion Chart															
	10 th Feet		10 th Feet	Ft/In	10 th Ft	Ft/In	10 th Ft												
1	0	11	1.4	3/8-7/8	0.05	6 ^{3/8} -6 ^{7/8}	0.55												
2	1	12	1.3	1-1 ^{1/2}	0.1	7-7 ^{3/8}	0.6												
3	2	13	1.1	1 ^{5/8} -2	0.15	7 ^{1/2} -8	0.65												
4	3	14	1.8	2 ^{1/8} -2 ^{5/8}	0.2	8 ^{1/8} -8 ^{5/8}	0.7												
5	4	15	1.7	2 ^{3/4} -3 ^{1/4}	0.25	8 ^{3/4} -9 ^{1/4}	0.75												
6	5	16	1.5	3 ^{3/8} -3 ^{7/8}	0.3	9 ^{3/8} -9 ^{7/8}	0.8												
7	6	17	1.4	4-4 ^{3/8}	0.35	10-10 ^{3/8}	0.85												
8	7	18	1.3	4 ^{1/2} -5	0.4	10 ^{1/2} -11	0.9												
9	8	19	1.2	5 ^{1/8} -5 ^{5/8}	0.45	11 ^{1/8} -11 ^{5/8}	0.95												
10	9	20	0	5 ^{3/4} -6 ^{1/4}	0.5	11 ^{3/4} -12	1.0												
								Velocity Correction Factor Circle the bottom type Rough 0.8 Smooth <u>0.9</u>											

I did timing for 10 ft

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 ___ 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:	\leq 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.

No. of group 1 animals circled: 1

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

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.

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

No. of group 2 animals circled: 3

*All Caddisfly Larva = 1
 *All Riffle Beetles = 1

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

No. of group 3 animals circled: 1

*All Snails = 1

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

No. of group 4 animals circled: 1

Data entered into SWIMS? 11/3/2021 Data Entry Volunteer Initials CAH