



**Maine Department of Environmental Protection
Biological Monitoring Program
Aquatic Life Classification Attainment Report**

Station Information

Station Number: S-922	River Basin:	St. John	
Waterbody:	North Fork Mclean Brook - Station 922	HUC8 Name:	Fish
Town:	St Agatha	Latitude:	47 13 1.06 N
Directions:	~20 M DOWNSTREAM OF PLEINE RD	Longitude:	68 19 43.55 W
		Stream Order:	2

Sample Information

Log Number: 2733	Type of Sample:	ROCK BAG	Date Deployed:	7/10/2019	
Subsample Factor:	X2	Replicates:	3	Date Retrieved:	8/6/2019

Classification Attainment

Statutory Class: B	Final Determination: NA	Date:	1/4/2021
Model Result with P \geq 0.6:	NA	Reason for Determination:	Model
Date Last Calculated:	12/23/2020	Comments:	

Model Probabilities

<u>First Stage Model</u>		<u>C or Better Model</u>	
Class A	0.17	Class C	0.34
Class B	0.14	NA	0.35
<u>B or Better Model</u>		<u>A Model</u>	
Class A or B		Class A	0.05
Class C or Non-Attainment	1.00	Class B or C or Non-Attainment	0.95

Model Variables

01 Total Mean Abundance	580.67	18 Relative Abundance Ephemeroptera	0.00
02 Generic Richness	45.00	19 EPT Generic Richness	8.00
03 Plecoptera Mean Abundance	0.00	21 Sum of Abundances: <i>Dicrotendipes</i> , <i>Micropsectra</i> , <i>Parachironomus</i> , <i>Helobdella</i>	3.33
04 Ephemeroptera Mean Abundance	0.67	23 Relative Generic Richness- Plecoptera	0.00
05 Shannon-Wiener Generic Diversity	3.01	25 Sum of Abundances: <i>Cheumatopsyche</i> , <i>Cricotopus</i> , <i>Tanytarsus</i> , <i>Ablabesmyia</i>	1.33
06 Hilsenhoff Biotic Index	2.52	26 Sum of Abundances: <i>Acroneuria</i> , <i>Maccaffertium</i> , <i>Stenonema</i>	0.00
07 Relative Abundance - Chironomidae	0.65	28 EP Generic Richness/14	0.07
08 Relative Generic Richness Diptera	0.49	30 Presence of Class A Indicator Taxa/7	0.14
09 <i>Hydropsyche</i> Abundance	1.33		
11 <i>Cheumatopsyche</i> Abundance	0.00		
12 EPT Generic Richness/ Diptera Generic Richness	0.36		
13 Relative Abundance - Oligochaeta	0.28		
15 Perlidae Mean Abundance (Family Functional Group)	0.00		
16 Tanypodinae Mean Abundance (Family Functional Group)	6.00		
17 Chironomini Abundance (Family Functional Group)	11.33		

Five Most Dominant Taxa

Rank	Taxon Name	Percent
1	<i>Prodiamesa</i>	40.76
2	<i>Aulodrilus</i>	17.10
3	<i>Heterotrissocladius</i>	16.30
4	Lumbriculidae	4.82
5	<i>Limnodrilus</i>	4.20



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Station Number: S-922 Town: St Agatha Date Deployed: 7/10/2019
Log Number: 2733 Waterbody: North Fork Mclean Brook - Station 922 Date Retrieved: 8/6/2019

Sample Collection and Processing Information

Sampling Organization: BIOMONITORING UNIT Taxonomist: MICHAEL COLE

Waterbody Information - Deployment

Temperature: 15.3 deg C
Dissolved Oxygen: 9.82 mg/l
Dissolved Oxygen Saturation: 98.5 %
Specific Conductance: 238.6 uS/cm
Velocity: 3 cm/s
pH: 7.54
Wetted Width: 3.1 m
Bankfull Width: 5.4 m
Depth: 14 cm

Waterbody Information - Retrieval

Temperature: 15 deg C
Dissolved Oxygen: 10.21 mg/l
Dissolved Oxygen Saturation: 102.3 %
Specific Conductance: 240.5 uS/cm
Velocity: 6.1 cm/s
pH: 7.81
Wetted Width: 3.4 m
Bankfull Width: 5.7 m
Depth: 21 cm

Water Chemistry - 7/10/2019

Nitrate + Nitrite As Nitrogen	5.42 mg/l	Nitrate As Nitrogen	5.4 mg/l
Nitrite As Nitrogen	0.02 mg/l	Orthophosphate As Phosphorus	17 ug/l
Total Alkalinity	63 mg/l	Total Kjeldahl Nitrogen (organic A	<0.2 mg/l
Total Phosphorus Mixed Forms (po	70 ug/l		

Summary of Habitat Characteristics

<u>Landuse Name</u>	<u>Canopy Cover</u>	<u>Terrain</u>	
Cultivated	Dense	Rolling	
Upland Hardwood			
<u>Potential Stressor</u>	<u>Location</u>	<u>Substrate</u>	
Agricultural Runoff	Below Agriculture NPS	Gravel	40 %
Sedimentation		Rubble/Cobble	15 %
		Sand	35 %
		Silt	10 %

Landcover Summary - 2004 Data

Sample Comments



**Maine Department of Environmental Protection
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Aquatic Life Taxonomic Inventory Report**

Station Number: S-922

Waterbody: North Fork Mclean Brook - Station 922

Town: St Agatha

Log Number: 2733

Subsample Factor: X2

Replicates: 3

Calculated: 12/23/2020

Taxon	Maine Taxonomic Code	Count (Mean of Samplers)		Hilsenhoff Biotic Index	Functional Feeding Group	Relative Abundance %	
		Actual	Adjusted			Actual	Adjusted
Lumbriculidae	08020101	28.00	28.00		--	4.8	4.8
Enchytraeidae	08020201	0.67	0.67		--	0.1	0.1
Naididae	08020202	74.00			--	12.7	
<i>Nais</i>	08020202009	0.67	1.63		CG	0.1	0.3
<i>Aulodrilus</i>	08020202018		99.29		--		17.1
<i>Aulodrilus pluriset</i>	08020202018004	40.67			--	7.0	
<i>Limnodrilus</i>	08020202022		24.42		CG		4.2
<i>Limnodrilus hoffmeisteri</i>	08020202022003	10.00			--	1.7	
Lumbricidae	08020205	10.67	10.67		--	1.8	1.8
<i>Glossiphonia</i>	08030101004		5.33		--		0.9
<i>Glossiphonia elegans</i>	08030101004001	5.33			--	0.9	
<i>Erpobdella</i>	08030203002		2.67		--		0.5
<i>Erpobdella punctata</i>	08030203002001	2.67			--	0.5	
<i>Eurylophella</i>	09020410036		0.67	3	CG		0.1
<i>Eurylophella funeralis</i>	09020410036115	0.67			SH	0.1	
<i>Hydropsyche</i>	09020604016	1.33	1.33	4	CF	0.2	0.2
<i>Rhyacophila</i>	09020605019		0.67	2	PR		0.1
<i>Rhyacophila fuscula</i>	09020605019060	0.67			PR	0.1	
Limnephilidae	09020610				--		
<i>Onocosmoecus</i>	09020610046		0.67	2	SH		0.1
<i>Onocosmoecus unicolor</i>	09020610046103	0.67			--	0.1	
<i>Pycnopsyche</i>	09020610049	0.67	0.67	4	SH	0.1	0.1
<i>Psychoglypha</i>	09020610060		12.67	0	SH		2.2
<i>Psychoglypha subborealis</i>	09020610060120	12.67			--	2.2	
<i>Lepidostoma</i>	09020611064	2.67	2.67	1	SH	0.5	0.5
<i>Triaenodes</i>	09020618077	0.67	0.67	6	SH	0.1	0.1
<i>Tipula</i>	09021001002	0.67	0.67	4	SH	0.1	0.1
<i>Dicranota</i>	09021001005	1.33	1.33	3	PR	0.2	0.2
Ceratopogonidae	09021010	1.33	1.33		--	0.2	0.2
<i>Procladius</i>	09021011015	5.33	5.33	9	PR	0.9	0.9
<i>Thienemannimyia</i>	09021011020		0.67	3	PR		0.1
<i>Thienemannimyia group</i>	09021011020041	0.67			--	0.1	
<i>Pseudodiamesa</i>	09021011028	0.67	0.67		CG	0.1	0.1
<i>Prodiamesa</i>	09021011031	236.67	236.67	3	CG	40.8	40.8
<i>Brillia</i>	09021011033	0.67	0.67	5	SH	0.1	0.1
<i>Cricotopus</i>	09021011037		0.67	7	SH		0.1
<i>Cricotopus bicinctus</i>	09021011037057	0.67			--	0.1	



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Taxon	Maine Taxonomic Code	Count (Mean of Samplers)		Hilsenhoff Biotic Index	Functional Feeding Group	Relative Abundance %	
		Actual	Adjusted			Actual	Adjusted
<i>Diplocladius</i>	09021011038	1.33	1.33	8	CG	0.2	0.2
<i>Heterotrissocladius</i>	09021011044	94.67	94.67	0	CG	16.3	16.3
<i>Limnophyes</i>	09021011047	2.67	2.67	8	CG	0.5	0.5
<i>Parakiefferiella</i>	09021011052	3.33	3.33		CG	0.6	0.6
<i>Parametriocnemus</i>	09021011053	10.00	10.00	5	CG	1.7	1.7
<i>Synorthocladius</i>	09021011061	2.67	2.67	2	CG	0.5	0.5
<i>Micropsectra</i>	09021011070	3.33	3.33	7	CG	0.6	0.6
<i>Tanytarsus</i>	09021011076	0.67	0.67	6	CF	0.1	0.1
<i>Cryptochironomus</i>	09021011082	2.67	2.67	8	PR	0.5	0.5
<i>Paracladopelma</i>	09021011098	2.67	2.67	7	--	0.5	0.5
<i>Polypedilum</i>	09021011102		2.67	6	SH		0.5
<i>Polypedilum scalaenum group</i>	09021011102189	2.67			--	0.5	
<i>Tribelos</i>	09021011107		3.33	5	CG		0.6
<i>Tribelos jucundus</i>	09021011107198	3.33			--	0.6	
<i>Simulium</i>	09021012047	1.33	1.33	4	CF	0.2	0.2
<i>Coptotomus</i>	09021103023	0.67	0.67		PR	0.1	0.1
<i>Dubiraphia</i>	09021113064	0.67	0.67	6	--	0.1	0.1
<i>Optioservus</i>	09021113067	0.67	0.67	3	SC	0.1	0.1
<i>Promoresia</i>	09021113069		0.67		--		0.1
<i>Promoresia tardella</i>	09021113069052	0.67			--	0.1	
<i>Stenelmis</i>	09021113070	0.67	0.67	5	SC	0.1	0.1
Sphaeriidae	10020201	1.33	1.33		CF	0.2	0.2
<i>Pisidium</i>	10020201002	4.00	4.00		CF	0.7	0.7