



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

Station Information

Station Number: S-1162 River Basin: St. John
Waterbody: Scarey Brook - Station 1162 HUC8 Name: Aroostook
Town: Nashville Plt Latitude: 46 41 33.68 N
Directions: COORDINATE WITH THE LOG YARD TO GET ACCESS Longitude: 68 28 42.49 W
TO THE SITE. UPSREAM OF THE CONFLUENCE Stream Order: 1
WITH THE LITTLE MACHIAS RIVER

Sample Information

Log Number: 2728 Type of Sample: ROCK BAG Date Deployed: 7/8/2019
Subsample Factor: X1 Replicates: 3 Date Retrieved: 8/5/2019

Classification Attainment

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

Model Probabilities

First Stage Model		C or Better Model	
Class A	0.70	Class A, B, or C	1.00
Class B	0.28	Non-Attainment	0.00
B or Better Model		A Model	
Class A or B	1.00	Class A	0.95
Class C or Non-Attainment	0.00	Class B or C or Non-Attainment	0.05

Model Variables

01 Total Mean Abundance	118.00	18 Relative Abundance Ephemeroptera	0.28	
02 Generic Richness	41.00	19 EPT Generic Richness	15.00	
03 Plecoptera Mean Abundance	3.00	21 Sum of Abundances: <i>Dicrotendipes</i> ,	0.67	
04 Ephemeroptera Mean Abundance	33.00	<i>Micropsectra</i> , <i>Parachironomus</i> , <i>Helobdella</i>		
05 Shannon-Wiener Generic Diversity	4.38	23 Relative Generic Richness- Plecoptera	0.05	
06 Hilsenhoff Biotic Index	4.57	25 Sum of Abundances: <i>Cheumatopsyche</i> ,	3.00	
07 Relative Abundance - Chironomidae	0.21	<i>Cricotopus</i> , <i>Tanytarsus</i> , <i>Ablabesmyia</i>		
08 Relative Generic Richness Diptera	0.29	26 Sum of Abundances: <i>Acroneuria</i> ,	8.33	
09 <i>Hydropsyche</i> Abundance	0.00	<i>Maccaffertium</i> , <i>Stenonema</i>		
11 <i>Cheumatopsyche</i> Abundance	1.33	28 EP Generic Richness/14	0.57	
12 EPT Generic Richness/ Diptera	1.25	30 Presence of Class A Indicator Taxa/7	0.29	
Generic Richness		Five Most Dominant Taxa		
13 Relative Abundance - Oligochaeta	0.00	Rank	Taxon Name	Percent
15 Perlidae Mean Abundance (Family	0.33	1	<i>Dubiraphia</i>	23.45
Functional Group)		2	<i>Stenacron</i>	7.63
16 Tanypodinae Mean Abundance	7.00	3	<i>Maccaffertium</i>	7.06
(Family Functional Group)		4	<i>Paraleptophlebia</i>	7.05
17 Chironomini Abundance (Family	4.67	5	<i>Polypedilum</i>	3.95
Functional Group)				



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Station Number: S-1162	Town: Nashville Plt	Date Deployed: 7/8/2019
Log Number: 2728	Waterbody: Scarey Brook - Station 1162	Date Retrieved: 8/5/2019

Sample Collection and Processing Information

Sampling Organization: BIOMONITORING UNIT

Taxonomist: MICHAEL COLE

Waterbody Information - Deployment

Temperature:	18.4 deg C
Dissolved Oxygen:	8.5 mg/l
Dissolved Oxygen Saturation:	91.4 %
Specific Conductance:	105.1 uS/cm
Velocity:	9.1 cm/s
pH:	7.36
Wetted Width:	4.3 m
Bankfull Width:	4.9 m
Depth:	27 cm

Waterbody Information - Retrieval

Temperature:	16.7 deg C
Dissolved Oxygen:	8.93 mg/l
Dissolved Oxygen Saturation:	92.5 %
Specific Conductance:	144.2 uS/cm
Velocity:	3 cm/s
pH:	7.66
Wetted Width:	3.8 m
Bankfull Width:	4.9 m
Depth:	18 cm

Water Chemistry

Summary of Habitat Characteristics

Landuse Name

Canopy Cover

Terrain

Swamp Conifer

Dense

Rolling

Swamp Hardwood

Potential Stressor

Location

Substrate

Gravel	40 %
Rubble/Cobble	30 %
Sand	15 %
Silt	15 %

Landcover Summary - 2004 Data

Sample Comments

FISH PRESENT.



**Maine Department of Environmental Protection
Biological Monitoring Program
Aquatic Life Taxonomic Inventory Report**

Station Number: S-1162

Waterbody: Scarey Brook - Station 1162

Town: Nashville Plt

Log Number: 2728

Subsample Factor: X1

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
<i>Cambarus</i>	09010301007	0.33	0.33		CG	0.3	0.3
<i>Leuctra</i>	09020204020	2.67	2.67	0	SH	2.3	2.3
Perlidae	09020209	0.33	0.33		--	0.3	0.3
<i>Boyeria</i>	09020301004	0.67	1.33	2	PR	0.6	1.1
<i>Boyeria grafiana</i>	09020301004011	0.33			--	0.3	
<i>Boyeria vinosa</i>	09020301004012	0.33			--	0.3	
Cordulegastridae	09020303	0.33	0.33		--	0.3	0.3
<i>Calopteryx</i>	09020307043	2.33	2.33	5	PR	2.0	2.0
<i>Acerpenna</i>	09020401007		3.67	5	CG		3.1
<i>Acerpenna macdunnoughi</i>	09020401007001	3.67			--	3.1	
<i>Stenacron</i>	09020402014	1.33	9.00	7	SC	1.1	7.6
<i>Stenacron interpunctatum</i>	09020402014045	7.67			--	6.5	
<i>Maccaffertium</i>	09020402015	5.00	8.33	4	SC	4.2	7.1
<i>Maccaffertium vicarium</i>	09020402015055	3.33			--	2.8	
Leptophlebiidae	09020406	0.33			--	0.3	
<i>Habrophlebia</i>	09020406023		0.35		--		0.3
<i>Habrophlebia vibrans</i>	09020406023072	0.33			--	0.3	
<i>Paraleptophlebia</i>	09020406026	8.00	8.32	1	CG	6.8	7.1
<i>Eurylophella</i>	09020410036		3.33	3	CG		2.8
<i>Eurylophella funeralis</i>	09020410036115	3.33			SH	2.8	
Gerridae	09020506	0.33	0.33		--	0.3	0.3
<i>Microvelia</i>	09020510025	0.67	0.67		PR	0.6	0.6
<i>Rhagovelia</i>	09020510026	0.33	0.33		PR	0.3	0.3
Polycentropodidae	09020603	0.33			--	0.3	
<i>Nyctiophylax</i>	09020603009	1.33	1.47	5	PR	1.1	1.2
<i>Polycentropus</i>	09020603010	2.00	2.20	6	PR	1.7	1.9
<i>Cheumatopsyche</i>	09020604015	1.33	1.33	5	CF	1.1	1.1
<i>Rhyacophila</i>	09020605019		2.33	2	PR		2.0
<i>Rhyacophila minora</i>	09020605019063	2.00			PR	1.7	
<i>Rhyacophila nigrita</i>	09020605019064	0.33			PR	0.3	
Limnephilidae	09020610	0.33	0.33		--	0.3	0.3
<i>Pycnopsyche</i>	09020610049	4.33	4.33	4	SH	3.7	3.7
<i>Psilotreta</i>	09020614068	1.67	3.33	0	SC	1.4	2.8
<i>Psilotreta frontalis</i>	09020614068134	1.67			--	1.4	
<i>Sialis</i>	09020702004	0.33	0.33	4	PR	0.3	0.3
<i>Tipula</i>	09021001002	1.33	1.33	4	SH	1.1	1.1
Chironomidae	09021011				--		



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		Calculated: 12/23/2020

Taxon	Maine Taxonomic Code	Count (Mean of Samplers)		Hilsenhoff Biotic Index	Functional Feeding Group	Relative Abundance %	
		Actual	Adjusted			Actual	Adjusted
<i>Thienemannimyia</i>	09021011020		4.33	3	PR		3.7
<i>Thienemannimyia group</i>	09021011020041	4.33			--	3.7	
<i>Trissopelopia</i>	09021011021	2.67	2.67		PR	2.3	2.3
<i>Brillia</i>	09021011033	0.67	0.67	5	SH	0.6	0.6
<i>Nanocladius</i>	09021011049	0.33	0.33	3	CG	0.3	0.3
<i>Parametriocnemus</i>	09021011053	2.00	2.00	5	CG	1.7	1.7
<i>Micropsectra</i>	09021011070	0.67	0.67	7	CG	0.6	0.6
<i>Paratanytarsus</i>	09021011071	2.67	4.00	6	--	2.3	3.4
<i>Paratanytarsus longistylus</i>	09021011071126	1.33		6	--	1.1	
<i>Rheotanytarsus</i>	09021011072		3.33	6	CF		2.8
<i>Rheotanytarsus pellucidus</i>	09021011072128	3.33			CF	2.8	
<i>Stempellinella</i>	09021011074	0.67	0.67	2	--	0.6	0.6
<i>Tanytarsus</i>	09021011076	1.67	1.67	6	CF	1.4	1.4
<i>Polypedilum</i>	09021011102		4.67	6	SH		4.0
<i>Polypedilum aviceps</i>	09021011102181	4.67			--	4.0	
Empididae	09021016			6	--		
<i>Dubiraphia</i>	09021113064	27.67	27.67	6	--	23.4	23.4
<i>Optioservus</i>	09021113067	1.00	1.00	3	SC	0.8	0.8
Acariformes	090301	0.33	0.33		--	0.3	0.3
<i>Physella</i>	10010202027	0.33	0.33		SC	0.3	0.3
Sphaeriidae	10020201	0.67	0.67		CF	0.6	0.6
<i>Pisidium</i>	10020201002	4.33	4.33		CF	3.7	3.7