



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

Station Information

Station Number: S-925	River Basin:	St. John	
Waterbody:	Getchell Brook - Station 925	HUC8 Name:	Becaguimec Stream-Saint John Riv
Town:	Easton	Latitude:	46 36 32.33 N
Directions:	OFF WEST RIDGE RD.	Longitude:	67 54 31.76 W
		Stream Order:	1

Sample Information

Log Number: 2285	Type of Sample:	ROCK BAG	Date Deployed:	7/23/2014	
Subsample Factor:	X1	Replicates:	3	Date Retrieved:	8/20/2014

Classification Attainment

Statutory Class: B	Final Determination: A	Date:	2/12/2015
Model Result with $P \geq 0.6$:	A	Reason for Determination:	Model
Date Last Calculated:	2/11/2015	Comments:	

Model Probabilities

<u>First Stage Model</u>		<u>C or Better Model</u>	
Class A	0.86	Class C	0.00
Class B	0.14	NA	0.00
<u>B or Better Model</u>		<u>A Model</u>	
Class A or B	1.00	Class A	0.96
Class C or Non-Attainment	0.00	Class B or C or Non-Attainment	0.04

Model Variables

01 Total Mean Abundance	357.00	18 Relative Abundance Ephemeroptera	0.05
02 Generic Richness	52.00	19 EPT Generic Richness	17.00
03 Plecoptera Mean Abundance	89.33	21 Sum of Abundances: <i>Dicrotendipes</i> ,	77.59
04 Ephemeroptera Mean Abundance	19.00	<i>Micropsectra</i> , <i>Parachironomus</i> , <i>Helobdella</i>	
05 Shannon-Wiener Generic Diversity	3.66	23 Relative Generic Richness- Plecoptera	0.08
06 Hilsenhoff Biotic Index	3.76	25 Sum of Abundances: <i>Cheumatopsyche</i> ,	2.14
07 Relative Abundance - Chironomidae	0.47	<i>Cricotopus</i> , <i>Tanytarsus</i> , <i>Ablabesmyia</i>	
08 Relative Generic Richness Diptera	0.44	26 Sum of Abundances: <i>Acroneuria</i> ,	0.00
09 <i>Hydropsyche</i> Abundance	7.20	<i>Maccaffertium</i> , <i>Stenonema</i>	
11 <i>Cheumatopsyche</i> Abundance	1.80	28 EP Generic Richness/14	0.57
12 EPT Generic Richness/ Diptera	0.74	30 Presence of Class A Indicator Taxa/7	0.00

Five Most Dominant Taxa

Rank	Taxon Name	Percent
1	<i>Leuctra</i>	23.90
2	<i>Micropsectra</i>	21.74
3	<i>Parametriocnemus</i>	15.12
4	<i>Simulium</i>	9.06
5	<i>Trissopelopia</i>	3.97



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Date Retrieved: 8/20/2014

Sample Collection and Processing Information

Sampling Organization: BIOMONITORING UNIT

Taxonomist: MICHAEL WINNELL

Waterbody Information - Deployment

Temperature: 13.8 deg C
Dissolved Oxygen: 9.1 mg/l
Specific Conductance: 528 uS/cm
Velocity: 22 cm/s
pH: 8.15
Wetted Width: 4.2 m
Bankfull Width: 4.2 m
Depth: 26 cm

Waterbody Information - Retrieval

Temperature: 14.7 deg C
Dissolved Oxygen: 9.8 mg/l
Specific Conductance: 498 uS/cm
Velocity: 15 cm/s
pH: 7.59
Wetted Width: 4.2 m
Bankfull Width: 4.2 m
Depth: 21 cm

Water Chemistry - 7/29/2014

Nitrate+nitrite As N 1.9 mg/l
Total Kjeldahl Nitrogen 0.3 mg/l
Total Alkalinity 214 mg/l

Total Phosphorus 20 ug/l
Orthophosphate As Phosphorus 9 ug/l

Summary of Habitat Characteristics

Landuse Name

Cultivated

Swamp Conifer

Swamp Hardwood

Canopy Cover

Partly Open

Terrain

Rolling

Potential Stressor

Agricultural Runoff

Location

Below Road Crossing

Substrate

Boulder 40 %

Gravel 10 %

Rubble/Cobble 50 %

Landcover Summary - 2004 Data

Sample Comments

7/23 - HISTORICAL DEBRIS (OLD DAM), LOTS OF BLOW DOWNS, FISH PRESENT, BRAIDED STREAM.

8/20 - FISH PRESENT, NMRO METER USED FOR DO AND SPC READINGS.



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Aquatic Life Taxonomic Inventory Report**

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Town: Easton

Log Number: 2285

Subsample Factor: X1

Replicates: 3

Calculated: 2/11/2015

Taxon	Maine Taxonomic Code	Count (Mean of Samplers)		Hilsenhoff Biotic Index	Functional Feeding Group	Relative Abundance	
		Actual	Adjusted			Actual	Adjusted
Turbellaria	0301	1.00	1.00		--	0.3	0.3
Enchytraeidae	08020201	0.67	0.67		--	0.2	0.2
Lumbricidae	08020205	1.33	1.33		--	0.4	0.4
<i>Paracapnia</i>	09020203018	1.33	1.33	1	SH	0.4	0.4
<i>Leuctra</i>	09020204020	82.33	85.33	0	SH	23.1	23.9
<i>Leuctra ferruginea</i>	09020204020050	0.67			--	0.2	
<i>Leuctra truncata</i>	09020204020058	2.33			--	0.7	
Perlodidae	09020207	0.33	0.33		--	0.1	0.1
<i>Sweltsa</i>	09020208040	2.33	2.33		PR	0.7	0.7
Baetidae	09020401	0.67			--	0.2	
<i>Baetis</i>	09020401001	0.33	1.18	4	CG	0.1	0.3
<i>Baetis tricaudatus</i>	09020401001012	0.67			--	0.2	
<i>Diphetor</i>	09020401013		3.15		--		0.9
<i>Diphetor hageni</i>	09020401013001	2.67			--	0.7	
Leptophlebiidae	09020406	13.33	13.33		--	3.7	3.7
<i>Paraleptophlebia</i>	09020406026	1.33	1.33	1	CG	0.4	0.4
<i>Polycentropus</i>	09020603010	0.33	0.33	6	PR	0.1	0.1
Hydropsychidae	09020604	5.67			--	1.6	
<i>Cheumatopsyche</i>	09020604015	0.67	1.80	5	CF	0.2	0.5
<i>Hydropsyche</i>	09020604016	1.67	7.20	4	CF	0.5	2.0
<i>Hydropsyche morosa</i>	09020604016030	0.33			--	0.1	
<i>Hydropsyche slossonae</i>	09020604016031	0.33			--	0.1	
<i>Hydropsyche sparna</i>	09020604016032	0.33			--	0.1	
<i>Rhyacophila</i>	09020605019	1.33	2.00	2	PR	0.4	0.6
<i>Rhyacophila minor</i>	09020605019063	0.67			PR	0.2	
<i>Oligostomis</i>	09020608039	3.00	3.00	2	PR	0.8	0.8
Limnephilidae	09020610	0.33			--	0.1	
<i>Psychoglypha</i>	09020610060		1.94	0	SH		0.5
<i>Psychoglypha subborealis</i>	09020610060120	1.67			--	0.5	
<i>Neophylax</i>	09020610062	0.33	0.39	3	SC	0.1	0.1
<i>Lepidostoma</i>	09020611064	3.00	3.00	1	SH	0.8	0.8
<i>Molanna</i>	09020615069		0.33	6	SC		0.1
<i>Molanna blenda</i>	09020615069133	0.33			--	0.1	
<i>Sialis</i>	09020702004	2.00	2.00	4	PR	0.6	0.6
Tipulidae	09021001	0.33			--	0.1	
<i>Tipula</i>	09021001002	2.00	2.29	4	SH	0.6	0.6
<i>Dicranota</i>	09021001005	0.33	0.38	3	PR	0.1	0.1
<i>Bezzia/palpomyia</i>	09021010043	1.00	1.00	6	PR	0.3	0.3



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Taxon	Maine Taxonomic Code	Count (Mean of Samplers)		Hilsenhoff Biotic Index	Functional Feeding Group	Relative Abundance	
		Actual	Adjusted			Actual	Adjusted
Chironomidae	09021011	2.00			--	0.6	
<i>Paramerina</i>	09021011013	0.33	0.34		--	0.1	0.1
<i>Rheopelopia</i>	09021011017				PR		
<i>Trissopelopia</i>	09021011021		14.17		PR		4.0
<i>Trissopelopia ogemawi</i>	09021011021042	14.00			--	3.9	
<i>Pagastia</i>	09021011025		0.34	1	--		0.1
<i>Pagastia orthogonia</i>	09021011025001	0.33			--	0.1	
<i>Brillia</i>	09021011033		2.70	5	SH		0.8
<i>Brillia parva</i>	09021011033050	2.67			--	0.7	
<i>Cardiocladius</i>	09021011034		0.67	5	PR		0.2
<i>Cardiocladius obscurus</i>	09021011034053	0.67			--	0.2	
<i>Eukiefferiella</i>	09021011041	2.00	3.04	8	CG	0.6	0.9
<i>Eukiefferiella claripennis group</i>	09021011041075	1.00			--	0.3	
<i>Heterotrissocladius</i>	09021011044		1.01	0	CG		0.3
<i>Heterotrissocladius marcidus</i>	09021011044083	1.00			--	0.3	
<i>Parametriocnemus</i>	09021011053	35.67	53.98	5	CG	10.0	15.1
<i>Parametriocnemus sp. F Epler</i>	09021011053101	17.67			--	4.9	
<i>Rheocricotopus</i>	09021011057		6.41	6	CG		1.8
<i>Rheocricotopus pauciseta</i>	09021011057111	6.33			--	1.8	
<i>Tvetenia</i>	09021011065		0.34	5	CG		0.1
<i>Tvetenia paucunca</i>	09021011065114	0.33			--	0.1	
<i>Micropsectra</i>	09021011070	76.67	77.59	7	CG	21.5	21.7
<i>Rheotanytarsus</i>	09021011072	0.33	0.34	6	CF	0.1	0.1
<i>Rheotanytarsus pellucidus</i>	09021011072128				CF		
<i>Tanytarsus</i>	09021011076	0.33	0.34	6	CF	0.1	0.1
<i>Polypedilum</i>	09021011102		2.02	6	SH		0.6
<i>Polypedilum flavum</i>	09021011102182	1.00			--	0.3	
<i>Polypedilum angulum</i>	09021011102198	1.00			--	0.3	
<i>Macropelopia</i>	09021011111		2.02		P		0.6
<i>Macropelopia decedens</i>	09021011111002	2.00			--	0.6	
<i>Brundiniella</i>	09021011115		2.02		--		0.6
<i>Brundiniella eumorpha</i>	09021011115001	2.00			--	0.6	
<i>Simulium</i>	09021012047		32.33	4	CF		9.1
<i>Simulium vittatum</i>	09021012047064	0.33			--	0.1	
<i>Simulium tuberosum</i>	09021012047067	29.00			--	8.1	
<i>Simulium craigi</i>	09021012047074	3.00			--	0.8	
<i>Chrysops</i>	09021014052	0.67	0.67	6	CG	0.2	0.2
<i>Atherix</i>	09021015055	8.00	8.00	2	PR	2.2	2.2



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<i>Hemerodromia</i>	09021016057			3	PR		
<i>Roederiodes</i>	09021016058	0.33	0.33	3	PR	0.1	0.1
<i>Haliphus</i>	09021101001		0.33		P		0.1
<i>Haliphus immaculicollis</i>	09021101001002	0.33			P	0.1	
<i>Optioservus</i>	09021113067		2.67	3	SC		0.7
<i>Optioservus ovalis</i>	09021113067046	2.67			--	0.7	
<i>Promoresia</i>	09021113069		3.67		--		1.0
<i>Promoresia tardella</i>	09021113069052	3.67			--	1.0	
<i>Lebertia</i>	09030105001	0.33	0.33		--	0.1	0.1
<i>Sperchon</i>	09030107001	0.33	0.33		--	0.1	0.1
Basommatophora	100102	2.00	2.00		--	0.6	0.6
<i>Physa</i>	10010202027	0.67	0.67		SC	0.2	0.2
Sphaeriidae	10020201	0.67	0.67		CF	0.2	0.2
<i>Pisidium</i>	10020201002	0.33	0.67		CF	0.1	0.2
<i>Pisidium casertanum</i>	10020201002006	0.33			CF	0.1	