



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

Station Information

Station Number: S-827	DEP Drainage: Penobscot
Waterbody: Sebec River - Station 827	HUC8: 01020004
Town: Milo	HUC8 Name: Piscataquis
Directions: DOWNSTREAM OF MILL	Latitude: 45 14 55.62 N
	Longitude: 68 59 11.81 W
	Stream Order: 3

Sample Information

Log Number: 1569	Type of Sample: ROCK BASKET	Date Deployed: 7/18/2006
Subsample Factor: X1	Replicates: 3	Date Retrieved: 8/15/2006

Classification Attainment

Statutory Class: B	Final Determination: A	Date: 6/22/2007
Model Result with P>.6: A	Reason for Determination: Model	
Date Last Calculated: 6/19/2007	Comments:	

Model Probabilities

<u>First Stage Model</u>		<u>C or Better Model</u>	
Class A	0.77	Class A, B, or C	1.00
Class B	0.22	Non-Attainment	0.00
<u>B or Better Model</u>		<u>A Model</u>	
Class A or B	1.00	Class A	0.98
Class C or Non-Attainment	0.00	Class B or C or Non-Attainment	0.02

Model Variables

01 Total Mean Abundance	123.17	18 Relative Abundance Ephemeroptera	0.58
02 Generic Richness	25.00	19 EPT Generic Richness	14.00
03 Plecoptera Mean Abundance	9.50	21 Sum of Abundances: <i>Dicrotendipes</i> , <i>Micropsectra</i> , <i>Parachironomus</i> , <i>Helobdella</i>	1.00
04 Ephemeroptera Mean Abundance	71.33	23 Relative Generic Richness- Plecoptera	0.08
05 Shannon-Wiener Generic Diversity	3.43	25 Sum of Abundances: <i>Cheumatopsyche</i> <i>Cricotopus</i> , <i>Tanytarsus</i> , <i>Ablabesmyia</i>	2.44
06 Hilsenhoff Biotic Index	3.71	26 Sum of Abundances: <i>Acroneuria</i> , <i>Maccaffertium</i> , <i>Stenonema</i>	48.74
07 Relative Abundance - Chironomidae	0.05	28 EP Generic Richness/14	0.57
08 Relative Generic Richness Diptera	0.24	30 Presence of Class A Indicator Taxa/7	0.29
09 <i>Hydropsyche</i> Abundance	4.32		
11 <i>Cheumatopsyche</i> Abundance	1.44		
12 EPT Generic Richness/ Diptera Generic Richness	2.33		
13 Relative Abundance - Oligochaeta	0.00		
15 Perlidae Mean Abundance (Family Functional Group)	9.50		
16 Tanypodinae Mean Abundance (Family Functional Group)	1.00		
17 Chironomini Abundance (Family Functional Group)	0.00		

Five Most Dominant Taxa

Rank	Taxon Name	Percent
1	<i>Maccaffertium</i>	36.33
2	<i>Leucrocuta</i>	12.66
3	<i>Neureclipsis</i>	10.01
4	<i>Macrostemum</i>	6.42
5	<i>Acerpenna</i>	5.68



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Log Number: 1569

Town: Milo
Waterbody: Sebec River - Station 827

Date Deployed: 7/18/2006
Date Retrieved: 8/15/2006

Sample Collection and Processing Information

Sampling Organization: BIOMONITORING UNIT
Taxonomist: MICHAEL WINNELL

Waterbody Information - Deployment

Temperature: 27.6 deg C
Dissolved Oxygen: 8.2 mg/l
Specific Conductance: 18 uS/cm
Velocity: 37 cm/s
pH:
Wetted Width: 41 m
Bankfull Width: 41 m
Depth: 76 cm

Waterbody Information - Retrieval

Temperature: 22.8 deg C
Dissolved Oxygen: 8.1 mg/l
Specific Conductance: 23 uS/cm
Velocity: 8 cm/s
pH: 6.82
Wetted Width: 35 m
Bankfull Width:
Depth: 59 cm

Water Chemistry - Retrieval

Summary of Habitat Characteristics

<u>Landuse Name</u>	<u>Canopy Cover</u>	<u>Terrain</u>
Upland Hardwood	Canopy Open	Rolling Terrain

<u>Stressor</u>	<u>Location</u>	<u>Substrate</u>	
	Main Stem	Bedrock	5 %
		Boulder	20 %
		Gravel	10 %
		Rubble/Cobble	65 %

Landcover Summary - 2004 Data

Total Area (ac)	223904	High Int. Dev. %	0.1	Water %	7.6	Non-vegetated %	0.0
Total Land (ac)	208126	Med Int. Dev. %	0.0	Wetland %	3.1	Tilled Agriculture %	0.3
		Low Int. Dev. %	1.7	Upland Woody %	94.4	Human Altered %	2.4
		Development %	1.8	Natural %	97.6	Impervious %	0.5

Sample Comments



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

Station Number: S-827

Waterbody: Sebec River - Station 827

Town: Milo

Log Number: 1569

Subsample Factor: X1

Replicates: 3

Calculated: 6/19/2007

Taxon	Maine Taxonomic Code	Count (Mean of Samplers)		Hilsenhoff Biotic Index	Functional Feeding Group	Relative Abundance	
		Actual	Adjusted			Actual	Adjusted
<i>Gloiobdella</i>	08030101009		1.00		--		0.8
<i>Gloiobdella elongata</i>	08030101009001	1.00			--	0.8	
<i>Acroneuria</i>	09020209042		4.00	0	PR		3.2
<i>Acroneuria abnormis</i>	09020209042121	1.00		0	PR	0.8	
<i>Acroneuria lycorias</i>	09020209042125	1.00			--	0.8	
<i>Acroneuria mela</i>	09020209042126	2.00			--	1.6	
<i>Attaneuria</i>	09020209043		5.50	1	--		4.5
<i>Attaneuria ruralis</i>	09020209043128	5.50			--	4.5	
<i>Boyeria</i>	09020301004		2.00	2	PR		1.6
<i>Boyeria grafiana</i>	09020301004011	1.00			--	0.8	
<i>Boyeria vinosa</i>	09020301004012	1.00			--	0.8	
<i>Calopteryx</i>	09020307043		1.00	5	PR		0.8
<i>Calopteryx aequabilis</i>	09020307043085	1.00			--	0.8	
<i>Argia</i>	09020309048	1.33	1.33	7	PR	1.1	1.1
<i>Pseudocloeon</i>	09020401006		1.00	4	SC		0.8
<i>Pseudocloeon propinquum</i>	09020401006028	1.00			--	0.8	
<i>Acerpenna</i>	09020401007	1.00	7.00	5	CG	0.8	5.7
<i>Acerpenna pygmaea</i>	09020401007011	6.00			--	4.9	
Heptageniidae	09020402	1.00			--	0.8	
<i>Leucrocota</i>	09020402011	15.33	15.59	1	SC	12.4	12.7
<i>Maccaffertium</i>	09020402015	26.00	44.74	4	SC	21.1	36.3
<i>Maccaffertium luteum</i>	09020402015049	12.67			--	10.3	
<i>Maccaffertium mediopunctatum</i>	09020402015050	2.67			--	2.2	
<i>Maccaffertium modestum</i>	09020402015051	2.67			--	2.2	
<i>Isonychia</i>	09020404018	1.00	1.00	2	CF	0.8	0.8
<i>Serratella</i>	09020410037		2.00	2	CG		1.6
<i>Serratella deficiens</i>	09020410037121	2.00			--	1.6	
<i>Chimarra</i>	09020601003	1.00	1.00	2	CF	0.8	0.8
<i>Neureclipsis</i>	09020603008	12.33	12.33	7	CF	10.0	10.0
Hydropsychidae	09020604	1.00			--	0.8	
<i>Cheumatopsyche</i>	09020604015	1.33	1.44	5	CF	1.1	1.2
<i>Hydropsyche</i>	09020604016	2.00	4.32	4	CF	1.6	3.5
<i>Hydropsyche morosa</i>	09020604016030	1.00			--	0.8	
<i>Hydropsyche scalaris-group</i>	09020604016048	1.00			--	0.8	
<i>Macrostemum</i>	09020604018		7.91	3	CF		6.4
<i>Macrostemum zebratum</i>	09020604018054	7.33			--	6.0	
<i>Hydroptila</i>	09020607026	1.00	1.00	6	P	0.8	0.8
<i>Nilotanypus</i>	09021011012		1.00	6	PR		0.8
<i>Nilotanypus fimbriatus</i>	09021011012027	1.00			--	0.8	
<i>Tvetenia</i>	09021011065		1.50	5	CG		1.2
<i>Tvetenia vitracies</i>	09021011065113	1.50			--	1.2	
<i>Micropsectra</i>	09021011070	1.00	1.00	7	CG	0.8	0.8



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<i>Rheotanytarsus</i>	09021011072	1.50	1.50	6	CF	1.2	1.2
<i>Tanytarsus</i>	09021011076	1.00	1.00	6	CF	0.8	0.8
<i>Simulium</i>	09021012047		1.00	4	CF		0.8
<i>Simulium fibrinflatum</i>	09021012047059	1.00			--	0.8	
Gastropoda	1001	1.00	1.00		--	0.8	0.8
<i>Amnicola</i>	10010104013		1.00		SC		0.8
<i>Amnicola limosa</i>	10010104013018	1.00			--	0.8	