



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

Station Information

Station Number: S-876	DEP Drainage: St. Croix - Coastal
Waterbody: Jordan Stream - Station 876	HUC8:
Town: Mount Desert	HUC8 Name:
Directions:	Latitude: 44 19 18.56 N
	Longitude: 68 15 17.28 W
	Stream Order: 1

Sample Information

Log Number: 1754	Type of Sample: ROCK BAG	Date Deployed: 8/6/2008
Subsample Factor: X1	Replicates: 3	Date Retrieved: 9/4/2008

Classification Attainment

Statutory Class: AA	Final Determination: I	Date: 7/9/2009
Model Result with P>.6: I	Reason for Determination: Best Professional Judgement	
Date Last Calculated: 7/7/2009	Comments: Minimum Provision for Total Mean Abundance not met.	

Model Probabilities

<u>First Stage Model</u>		<u>C or Better Model</u>	
Class A	0.17	Class A, B, or C	0.19
Class B	0.22	Non-Attainment	0.81
<u>B or Better Model</u>		<u>A Model</u>	
Class A or B	0.03	Class A	0.05
Class C or Non-Attainment	0.97	Class B or C or Non-Attainment	0.95

Model Variables

01 Total Mean Abundance	15.67	18 Relative Abundance Ephemeroptera	0.06
02 Generic Richness	16.00	19 EPT Generic Richness	6.00
03 Plecoptera Mean Abundance	0.67	21 Sum of Abundances: <i>Dicrotendipes</i> , <i>Micropsectra</i> , <i>Parachironomus</i> , <i>Helobdella</i>	0.00
04 Ephemeroptera Mean Abundance	1.00	23 Relative Generic Richness- Plecoptera	0.06
05 Shannon-Wiener Generic Diversity	3.47	25 Sum of Abundances: <i>Cheumatopsyche</i> <i>Cricotopus</i> , <i>Tanytarsus</i> , <i>Ablabesmyia</i>	1.78
06 Hilsenhoff Biotic Index	5.26	26 Sum of Abundances: <i>Acroneuria</i> , <i>Maccaffertium</i> , <i>Stenonema</i>	0.67
07 Relative Abundance - Chironomidae	0.66	28 EP Generic Richness/14	0.21
08 Relative Generic Richness Diptera	0.38	30 Presence of Class A Indicator Taxa/7	0.14
09 <i>Hydropsyche</i> Abundance	0.00		
11 <i>Cheumatopsyche</i> Abundance	0.00		
12 EPT Generic Richness/ Diptera Generic Richness	1.00		
13 Relative Abundance - Oligochaeta	0.00		
15 Perlidae Mean Abundance (Family Functional Group)	0.67		
16 Tanypodinae Mean Abundance (Family Functional Group)	0.00		
17 Chironomini Abundance (Family Functional Group)	3.56		

Five Most Dominant Taxa

Rank	Taxon Name	Percent
1	<i>Rheotanytarsus</i>	22.74
2	<i>Microtendipes</i>	18.20
3	<i>Cricotopus</i>	11.37
4	Isotomidae	8.51
5	<i>Corynoneura</i>	6.82



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Station Number: S-876
Log Number: 1754

Town: Mount Desert
Waterbody: Jordan Stream - Station 876

Date Deployed: 8/6/2008
Date Retrieved: 9/4/2008

Sample Collection and Processing Information

Sampling Organization: ACADIA NATIONAL PARK
Taxonomist: MICHAEL WINNELL

Waterbody Information - Deployment

Temperature: 21.4 deg C
Dissolved Oxygen: 8.78 mg/l
Specific Conductance: 32 uS/cm
Velocity: 51.8 cm/s
pH: 6.76
Wetted Width: 5.18 m
Bankfull Width: 5.91 m
Depth: 34 cm

Waterbody Information - Retrieval

Temperature: 19.5 deg C
Dissolved Oxygen: 8.85 mg/l
Specific Conductance: 33 uS/cm
Velocity: 1.22 cm/s
pH: 6.48
Wetted Width: 3.92 m
Bankfull Width: 5.91 m
Depth: 8.6 cm

Water Chemistry - Retrieval

Summary of Habitat Characteristics

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

<u>Stressor</u>	<u>Location</u>	<u>Substrate</u>
Altered Habitat Stressor	Below Dam	Boulder 10 %
Altered Hydrology Stressor		Gravel 5 %
Lake Outlet Stressor		Rubble/Cobble 75 %
Low Gradient Stressor		Sand 4 %
		Silt 1 %

Landcover Summary - 2004 Data

Sample Comments



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

Station Number: S-876 Waterbody: Jordan Stream - Station 876 Town: Mount Desert
Log Number: 1754 Subsample Factor: X1 Replicates: 3 Calculated: 7/7/2009

Taxon	Maine Taxonomic Code	Count (Mean of Samplers)		Hilsenhoff Biotic Index	Functional Feeding Group	Relative Abundance	
		Actual	Adjusted			Actual	Adjusted
Isotomidae	09020102	1.33	1.33		--	8.5	8.5
<i>Acroneuria</i>	09020209042		0.67	0	PR		4.3
<i>Acroneuria lycorias</i>	09020209042125	0.67			--	4.3	
<i>Leucrocuta</i>	09020402011	0.67	0.67	1	SC	4.3	4.3
<i>Stenacron</i>	09020402014		0.33	7	SC		2.1
<i>Stenacron interpunctatum</i>	09020402014045	0.33			--	2.1	
<i>Microvelia</i>	09020510025	0.33	0.33		PR	2.1	2.1
<i>Oligostomis</i>	09020608039	0.33	0.33	2	PR	2.1	2.1
<i>Ptilostomis</i>	09020608041	0.33	0.33	5	SH	2.1	2.1
Limnephilidae	09020610				--		
<i>Ceraclea</i>	09020618072	0.33	0.33	3	CG	2.1	2.1
<i>Nigronia</i>	09020701003		0.67	0	PR		4.3
<i>Nigronia serricornis</i>	09020701003003	0.67			--	4.3	
Lepidoptera	090209	0.33	0.33		--	2.1	2.1
Chironomidae	09021011	0.67			--	4.3	
<i>Corynoneura</i>	09021011036	1.00	1.07	7	CG	6.4	6.8
<i>Cricotopus</i>	09021011037		1.78	7	SH		11.4
<i>Cricotopus bicinctus</i>	09021011037057	1.67			--	10.6	
<i>Eukiefferiella</i>	09021011041		0.36	8	CG		2.3
<i>Eukiefferiella claripennis group</i>	09021011041075	0.33			--	2.1	
<i>Rheotanytarsus</i>	09021011072	3.33	3.56	6	CF	21.3	22.7
<i>Microtendipes</i>	09021011094		2.85	6	CF		18.2
<i>Microtendipes pedellus group</i>	09021011094166	2.67			--	17.0	
<i>Polypedilum</i>	09021011102		0.71	6	SH		4.5
<i>Polypedilum illinoense group</i>	09021011102185	0.67			--	4.3	