



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

Station Information

Station Number:	S-874	DEP Drainage:	Androscoggin
Waterbody:	Snowman Brook - Station 874	HUC8:	01040002
Town:	Weld	HUC8 Name:	Lower Androscoggin
Directions:	OFF WEST ROAD, AT CORNER OF SNOWMAN LANE AND SWETT BROOK LANE	Latitude:	44 41 36.94 N
		Longitude:	70 27 44.07 W
		Stream Order:	2

Sample Information

Log Number:	1752	Type of Sample:	ROCK BAG	Date Deployed:	7/25/2008
Subsample Factor:	X1	Replicates:	3	Date Retrieved:	8/22/2008

Classification Attainment

Statutory Class:	B	Final Determination:	A	Date:	5/20/2009
Model Result with P>.6:	A	Reason for Determination:	Model		
Date Last Calculated:	5/19/2009	Comments:			

Model Probabilities

<u>First Stage Model</u>				<u>C or Better Model</u>	
Class A	0.89	Class C	0.00	Class A, B, or C	1.00
Class B	0.11	NA	0.00	Non-Attainment	0.00
<u>B or Better Model</u>				<u>A Model</u>	
Class A or B			1.00	Class A	1.00
Class C or Non-Attainment			0.00	Class B or C or Non-Attainment	0.00

Model Variables

01 Total Mean Abundance	67.67	18 Relative Abundance Ephemeroptera	0.28
02 Generic Richness	36.00	19 EPT Generic Richness	21.00
03 Plecoptera Mean Abundance	19.67	21 Sum of Abundances: <i>Dicrotendipes</i> , <i>Micropsectra</i> , <i>Parachironomus</i> , <i>Helobdella</i>	2.72
04 Ephemeroptera Mean Abundance	18.67	23 Relative Generic Richness- Plecoptera	0.14
05 Shannon-Wiener Generic Diversity	4.24	25 Sum of Abundances: <i>Cheumatopsyche</i> <i>Cricotopus</i> , <i>Tanytarsus</i> , <i>Ablabesmyia</i>	0.33
06 Hilsenhoff Biotic Index	3.95	26 Sum of Abundances: <i>Acroneuria</i> , <i>Maccaffertium</i> , <i>Stenonema</i>	2.33
07 Relative Abundance - Chironomidae	0.25	28 EP Generic Richness/14	1.00
08 Relative Generic Richness Diptera	0.36	30 Presence of Class A Indicator Taxa/7	0.29
09 <i>Hydropsyche</i> Abundance	4.67		
11 <i>Cheumatopsyche</i> Abundance	0.33		
12 EPT Generic Richness/ Diptera Generic Richness	1.62		
13 Relative Abundance - Oligochaeta	0.00		
15 Perlidae Mean Abundance (Family Functional Group)	2.00		
16 Tanypodinae Mean Abundance (Family Functional Group)	0.34		
17 Chironomini Abundance (Family Functional Group)	6.46		

Five Most Dominant Taxa		
Rank	Taxon Name	Percent
1	<i>Tallaperla</i>	19.21
2	<i>Polypedilum</i>	9.55
3	<i>Eurylophella</i>	9.36
4	<i>Parametriocnemus</i>	7.54
5	<i>Hydropsyche</i>	6.90



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Date Retrieved: 8/22/2008

Sample Collection and Processing Information

Sampling Organization: BIOMONITORING UNIT

Taxonomist: MICHAEL WINNELL

Waterbody Information - Deployment

Temperature: 16.4 deg C
Dissolved Oxygen: 9.2 mg/l
Specific Conductance: 13 uS/cm
Velocity: 117 cm/s
pH: 6.11
Wetted Width: 4.6 m
Bankfull Width: 4.6 m
Depth: 45 cm

Waterbody Information - Retrieval

Temperature: 14.8 deg C
Dissolved Oxygen: 9.2 mg/l
Specific Conductance: 26 uS/cm
Velocity: 19 cm/s
pH: 6.58
Wetted Width: 4.25 m
Bankfull Width: 5.3 m
Depth: 23 cm

Water Chemistry - Retrieval

Summary of Habitat Characteristics

Landuse Name

Canopy Cover

Terrain

Upland Conifer

Canopy Dense

Mountainous Terrain

Upland Hardwood

Stressor

Location

Substrate

Main Stem

Boulder 5 %
Gravel 15 %
Rubble/Cobble 75 %
Sand 5 %

Landcover Summary - 2004 Data

Sample Comments

BAG 2 DISTURBED (HALF OUT OF WATER)



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

Station Number: S-874

Waterbody: Snowman Brook - Station 874

Town: Weld

Log Number: 1752

Subsample Factor: X1

Replicates: 3

Calculated: 5/19/2009

Taxon	Maine Taxonomic Code	Count (Mean of Samplers)		Hilsenhoff Biotic Index	Functional Feeding Group	Relative Abundance	
		Actual	Adjusted			Actual	Adjusted
<i>Pteronarcys</i>	09020205023		0.67	0	SH		1.0
<i>Pteronarcys biloba</i>	09020205023061	0.67			--	1.0	
<i>Tallaperla</i>	09020206025	13.00	13.00		SH	19.2	19.2
Perlodidae	09020207	2.00	2.00		--	3.0	3.0
<i>Sweltsa</i>	09020208040	2.00	2.00		PR	3.0	3.0
<i>Agnatina</i>	09020209050		2.00	2	PR		3.0
<i>Agnatina capitata</i>	09020209050152	2.00		2	PR	3.0	
<i>Baetis</i>	09020401001	1.00	4.00	4	CG	1.5	5.9
<i>Baetis flavistriga</i>	09020401001004	0.67			--	1.0	
<i>Baetis tricaudatus</i>	09020401001012	2.33			--	3.4	
<i>Acerpenna</i>	09020401007		0.33	5	CG		0.5
<i>Acerpenna macdunnoughi</i>	09020401007001	0.33			--	0.5	
<i>Diphetor</i>	09020401013		0.33		--		0.5
<i>Diphetor hageni</i>	09020401013001	0.33			--	0.5	
<i>Heptagenia</i>	09020402010		0.33	2	SC		0.5
<i>Heptagenia diabasia</i>	09020402010035	0.33			--	0.5	
<i>Maccaffertium</i>	09020402015	1.33	2.33	4	SC	2.0	3.4
<i>Maccaffertium modestum</i>	09020402015051	0.33			--	0.5	
<i>Maccaffertium vicarium</i>	09020402015055	0.67			--	1.0	
Leptophlebiidae	09020406	1.00	1.00		--	1.5	1.5
<i>Habrophlebia</i>	09020406023	0.33	0.33		--	0.5	0.5
<i>Ephemerella</i>	09020410035		3.67	1	CG		5.4
<i>Ephemerella invaria</i>	09020410035107	3.67			--	5.4	
<i>Eurylophella</i>	09020410036		6.33	3	CG		9.4
<i>Eurylophella funeralis</i>	09020410036115	6.33			SH	9.4	
<i>Dolophilodes</i>	09020601001	0.33	0.33	0	CF	0.5	0.5
<i>Cheumatopsyche</i>	09020604015	0.33	0.33	5	CF	0.5	0.5
<i>Hydropsyche</i>	09020604016	3.33	4.67	4	CF	4.9	6.9
<i>Hydropsyche alhedra</i>	09020604016028	1.00			--	1.5	
<i>Hydropsyche ventura</i>	09020604016033	0.33			--	0.5	
<i>Rhyacophila</i>	09020605019	0.67	0.67	2	PR	1.0	1.0
<i>Micrasema</i>	09020609044		1.00	2	SH		1.5
<i>Micrasema sprulesi</i>	09020609044102	1.00			--	1.5	
<i>Lepidostoma</i>	09020611064	0.33	0.33	1	SH	0.5	0.5
<i>Psilotreta</i>	09020614068		0.33	0	SC		0.5
<i>Psilotreta frontalis</i>	09020614068134	0.33			--	0.5	
Lepidoptera	090209	0.33	0.33		--	0.5	0.5
<i>Tipula</i>	09021001002	1.33	1.33	4	SH	2.0	2.0



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<i>Dicranota</i>	09021001005	1.67	1.67	3	PR	2.5	2.5
<i>Nymphomyia</i>	09021004021	0.33	0.33		SC	0.5	0.5
Chironomidae	09021011	0.33			--	0.5	
<i>Trissopelopia</i>	09021011021		0.34		PR		0.5
<i>Trissopelopia ogemawi</i>	09021011021042	0.33			--	0.5	
<i>Brillia</i>	09021011033	0.33	0.34	5	SH	0.5	0.5
<i>Corynoneura</i>	09021011036	0.67	0.68	7	CG	1.0	1.0
<i>Eukiefferiella</i>	09021011041		0.34	8	CG		0.5
<i>Eukiefferiella brehmi</i> group	09021011041073	0.33			--	0.5	
<i>Parametriocnemus</i>	09021011053	5.00	5.10	5	CG	7.4	7.5
<i>Rheocricotopus</i>	09021011057		0.34	6	CG		0.5
<i>Rheocricotopus robacki</i>	09021011057105	0.33			--	0.5	
<i>Tvetenia</i>	09021011065		0.34	5	CG		0.5
<i>Tvetenia paucunca</i>	09021011065114	0.33			--	0.5	
<i>Micropsectra</i>	09021011070	2.67	2.72	7	CG	3.9	4.0
<i>Polypedilum</i>	09021011102		6.46	6	SH		9.6
<i>Polypedilum aviceps</i>	09021011102181	6.33			--	9.4	
<i>Simulium tuberosum</i>	09021012047067				--		
<i>Atherix</i>	09021015055	0.33	0.33	2	PR	0.5	0.5
<i>Promoresia</i>	09021113069		1.00		--		1.5
<i>Promoresia tardella</i>	09021113069052	1.00			--	1.5	