



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

Station Information

Station Number: S-955
Waterbody: Androscoggin River - Station 955
Town: Brunswick
Directions: ROUTE 1 FROM TOPSHAM/BRUNSWICH MAINE
STREET. GO PAST FOOT BRIDGE TO BRUNSWICH
CANOE PORTAGE PARKING AREA
DEP Drainage: Androscoggin
HUC8:
HUC8 Name:
Latitude:
Longitude:
Stream Order: 5

Sample Information

Log Number: 1977 Type of Sample: CONE Date Deployed: 7/27/2010
Subsample Factor: X1 Replicates: 3 Date Retrieved: 9/8/2010

Classification Attainment

Statutory Class: C **Final Determination: C** Date: 12/8/2010
Model Result with P>.6: C **Reason for Determination: Model**
Date Last Calculated: 12/7/2010 Comments:

Model Probabilities

First Stage Model		C or Better Model	
Class A	0.07	Class A, B, or C	1.00
Class B	0.41	Non-Attainment	0.00
B or Better Model		A Model	
Class A or B	0.12	Class A	0.00
Class C or Non-Attainment	0.88	Class B or C or Non-Attainment	1.00

Model Variables

01 Total Mean Abundance	383.33	18 Relative Abundance Ephemeroptera	0.23
02 Generic Richness	50.00	19 EPT Generic Richness	16.00
03 Plecoptera Mean Abundance	0.33	21 Sum of Abundances: <i>Dicrotendipes</i> , <i>Micropsectra</i> , <i>Parachironomus</i> , <i>Helobdella</i>	8.16
04 Ephemeroptera Mean Abundance	87.67	23 Relative Generic Richness- Plecoptera	0.02
05 Shannon-Wiener Generic Diversity	4.09	25 Sum of Abundances: <i>Cheumatopsyche</i> , <i>Cricotopus</i> , <i>Tanytarsus</i> , <i>Ablabesmyia</i>	56.23
06 Hilsenhoff Biotic Index	6.15	26 Sum of Abundances: <i>Acroneuria</i> , <i>Maccaffertium</i> , <i>Stenonema</i>	69.47
07 Relative Abundance - Chironomidae	0.13	28 EP Generic Richness/14	0.36
08 Relative Generic Richness Diptera	0.30	30 Presence of Class A Indicator Taxa/7	0.00
09 <i>Hydropsyche</i> Abundance	0.71		
11 <i>Cheumatopsyche</i> Abundance	34.23		
12 EPT Generic Richness/ Diptera Generic Richness	1.07		
13 Relative Abundance - Oligochaeta	0.01		
15 Perlidae Mean Abundance (Family Functional Group)	0.33		
16 Tanypodinae Mean Abundance (Family Functional Group)	17.04		
17 Chironomini Abundance (Family Functional Group)	13.49		

Five Most Dominant Taxa		
Rank	Taxon Name	Percent
1	<i>Oecetis</i>	20.17
2	<i>Maccaffertium</i>	18.12
3	<i>Cheumatopsyche</i>	8.93
4	<i>Neureclipsis</i>	6.87
5	<i>Argia</i>	4.87



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Sample Collection and Processing Information

Sampling Organization: BIOMONITORING UNIT

Taxonomist: MICHAEL WINNELL

Waterbody Information - Deployment

Temperature: 24.8 deg C

Dissolved Oxygen: 8.4 mg/l

Specific Conductance: 95 uS/cm

Velocity:

pH:

Wetted Width:

Bankfull Width:

Depth: 300 cm

Waterbody Information - Retrieval

Temperature: 22.4 deg C

Dissolved Oxygen: 8.1 mg/l

Specific Conductance: 104 uS/cm

Velocity:

pH:

Wetted Width:

Bankfull Width:

Depth:

Water Chemistry

Summary of Habitat Characteristics

Landuse Name

Canopy Cover

Terrain

Potential Stressor

Location

Substrate

Impounded

Above Dam

Landcover Summary - 2004 Data

Sample Comments

9/8/2010 BOTTOM DO 8.0PPM, SURFACE DO 8.1PPM.

7/27/2010 ALSO MUNICIPAL PS AND INDUSTRIAL PS POTENTIAL STRESSORS; SOME FLOW BUT VELOCITY NOT MEASURED; BOTH SURFACE AND BOTTOM DO 8.4 PPM; DEPTH AROUND 3 M.



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Calculated: 12/7/2010

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
<i>Girardia</i>	03010102002		6.33		--		1.7
<i>Girardia tigrina</i>	03010102002001	6.33			--	1.7	
<i>Prostoma</i>	04010101001	0.33	0.33		--	0.1	0.1
<i>Arcteonais</i>	08020202006		0.67		--		0.2
<i>Arcteonais lomondi</i>	08020202006001	0.67			--	0.2	
<i>Slavina</i>	08020202012		0.33		--		0.1
<i>Slavina appendiculata</i>	08020202012001	0.33			--	0.1	
<i>Stylaria</i>	08020202014		1.33		CG		0.3
<i>Stylaria lacustris</i>	08020202014002	1.33			--	0.3	
<i>Synurella</i>	09010202006		1.67		--		0.4
<i>Synurella chamberlaini</i>	09010202006001	1.67			--	0.4	
<i>Hyalella</i>	09010203006		3.33	8	CG		0.9
<i>Hyalella azteca</i>	09010203006011	3.33			--	0.9	
<i>Orconectes</i>	09010301008		2.00		CG		0.5
<i>Orconectes limosus</i>	09010301008013	2.00			--	0.5	
<i>Agnetina</i>	09020209050		0.33	2	PR		0.1
<i>Agnetina capitata</i>	09020209050152	0.33		2	PR	0.1	
<i>Argia</i>	09020309048	16.33	18.67	7	PR	4.3	4.9
<i>Argia moesta</i>	09020309048096	2.33			--	0.6	
<i>Enallagma</i>	09020309051	1.33	1.33	9	PR	0.3	0.3
<i>Pseudocloeon</i>	09020401006		0.33	4	SC		0.1
<i>Pseudocloeon propinquum</i>	09020401006028	0.33			--	0.1	
<i>Procloeon</i>	09020401010	0.33	0.33		CG	0.1	0.1
Heptageniidae	09020402	1.00			--	0.3	
<i>Stenacron</i>	09020402014	5.00	17.53	7	SC	1.3	4.6
<i>Stenacron interpunctatum</i>	09020402014045	12.33			--	3.2	
<i>Maccaffertium</i>	09020402015	30.33	69.47	4	SC	7.9	18.1
<i>Maccaffertium exiguum</i>	09020402015046	0.33			--	0.1	
<i>Maccaffertium modestum</i>	09020402015051	38.00			--	9.9	
<i>Chimarra</i>	09020601003	10.00	10.00	2	CF	2.6	2.6
<i>Neureclipsis</i>	09020603008	26.33	26.33	7	CF	6.9	6.9
<i>Polycentropus</i>	09020603010	16.67	16.67	6	PR	4.3	4.3
Hydropsychidae	09020604	2.67			--	0.7	
<i>Cheumatopsyche</i>	09020604015	32.00	34.23	5	CF	8.3	8.9
<i>Hydropsyche</i>	09020604016	0.67	0.71	4	CF	0.2	0.2
<i>Macrostemum</i>	09020604018		6.06	3	CF		1.6
<i>Macrostemum zebratum</i>	09020604018054	5.67			--	1.5	



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		Actual	Adjusted			Actual	Adjusted
<i>Hydroptila</i>	09020607026	8.00	8.00	6	P	2.1	2.1
<i>Oxyethira</i>	09020607028	0.67	0.67	3	P	0.2	0.2
<i>Helicopsyche</i>	09020616070		0.33	3	SC		0.1
<i>Helicopsyche borealis</i>	09020616070137	0.33			--	0.1	
<i>Nectopsyche</i>	09020618074		0.33	3	SH		0.1
<i>Nectopsyche exquisita</i>	09020618074147	0.33			--	0.1	
<i>Oecetis</i>	09020618078	6.67	77.33	8	PR	1.7	20.2
<i>Oecetis inconspicua complex</i>	09020618078156	64.33			--	16.8	
<i>Oecetis persimilis</i>	09020618078157	6.33			--	1.7	
<i>Sialis</i>	09020702004	0.33	0.33	4	PR	0.1	0.1
Chironomidae	09021011	3.00			--	0.8	
<i>Ablabesmyia</i>	09021011001	0.33	16.33	8	PR	0.1	4.3
<i>Ablabesmyia mallochi</i>	09021011001004	15.00			--	3.9	
<i>Labrundinia</i>	09021011008		0.35	7	PR		0.1
<i>Labrundinia pilosella</i>	09021011008022	0.33			--	0.1	
<i>Pentaneura inconspicua</i>	09021011014028				--		
<i>Procladius</i>	09021011015	0.33	0.35	9	PR	0.1	0.1
<i>Cricotopus</i>	09021011037		0.71	7	SH		0.2
<i>Cricotopus bicinctus</i>	09021011037057	0.33			--	0.1	
<i>Cricotopus vierriensis</i>	09021011037071	0.33			--	0.1	
<i>Orthocladius</i>	09021011050		5.32	6	CG		1.4
<i>Orthocladius carlatus</i>	09021011050093	5.00			--	1.3	
<i>Parakiefferiella</i>	09021011052		0.71		CG		0.2
<i>Parakiefferiella coronata</i>	09021011052002	0.67			--	0.2	
<i>Psectrocladius</i>	09021011056	6.00	6.39	8	CG	1.6	1.7
<i>Stempellinella</i>	09021011074		0.71	2	--		0.2
<i>Stempellinella leptocelloides</i>	09021011074001	0.33			--	0.1	
<i>Stempellinella fimbriata</i>	09021011074002	0.33			--	0.1	
<i>Tanytarsus</i>	09021011076	4.67	4.97	6	CF	1.2	1.3
<i>Dicrotendipes</i>	09021011085	2.33	6.03	8	CG	0.6	1.6
<i>Dicrotendipes neomodestus</i>	09021011085152	3.33			--	0.9	
<i>Microtendipes</i>	09021011094		2.13	6	CF		0.6
<i>Microtendipes pedellus group</i>	09021011094166	0.67			--	0.2	
<i>Microtendipes rydalensis group</i>	09021011094168	1.33			--	0.3	
<i>Parachironomus</i>	09021011097	0.33	2.13	10	PR	0.1	0.6
<i>Parachironomus frequens</i>	09021011097172	1.67			--	0.4	
<i>Phaenopsectra</i>	09021011101		0.35	7	SC		0.1
<i>Phaenopsectra obediens</i>	09021011101182	0.33			SC	0.1	



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<i>Polypedilum</i>	09021011102		1.77	6	SH		0.5
<i>Polypedilum flavum</i>	09021011102182	0.33			--	0.1	
<i>Polypedilum halterale group</i>	09021011102193	1.33			--	0.3	
<i>Tribelos</i>	09021011107	0.67	1.06	5	CG	0.2	0.3
<i>Tribelos jucundum</i>	09021011107198	0.33			--	0.1	
<i>Psephenus</i>	09021108058		0.33	4	SC		0.1
<i>Psephenus herricki</i>	09021108058028	0.33			--	0.1	
<i>Macronychus</i>	09021113065		0.33	4	--		0.1
<i>Macronychus glabratus</i>	09021113065040	0.33			--	0.1	
<i>Aturus</i>	09030120001	0.33	0.33		--	0.1	0.1
Gastropoda	1001	0.67	0.67		--	0.2	0.2
<i>Amnicola</i>	10010104013		4.67		SC		1.2
<i>Amnicola limosa</i>	10010104013018	4.00			--	1.0	
<i>Amnicola grana</i>	10010104013019	0.67			--	0.2	
<i>Physa</i>	10010202026	13.00	13.00		SC	3.4	3.4
<i>Helisoma</i>	10010203030		0.33		SC		0.1
<i>Helisoma anceps</i>	10010203030058	0.33			--	0.1	
Sphaeriidae	10020201	2.67	2.67		CF	0.7	0.7
<i>Musculium</i>	10020201001		5.67		CF		1.5
<i>Musculium securis</i>	10020201001003	5.67			CF	1.5	