



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

Station Information

Station Number: S-641
Waterbody: Unnamed Stream (brunswick 2) - Station 641
Town: Brunswick
Directions: 17M DWNSTRM OF RIVER RD

DEP Drainage: Androscoggin
HUC8: 01040002
HUC8 Name: Lower Androscoggin
Latitude: 43 54 55.38 N
Longitude: 69 59 6.32 W
Stream Order:

Sample Information

Log Number: 1722
Subsample Factor: X4

Type of Sample: ROCK BAG
Replicates: 3

Date Deployed: 7/16/2008
Date Retrieved: 8/13/2008

Classification Attainment

Statutory Class: B
Model Result with P>.6: NA
Date Last Calculated: 5/19/2009

Final Determination: NA
Reason for Determination: Model
Comments:

Date: 5/20/2009

Model Probabilities

<u>First Stage Model</u>				<u>C or Better Model</u>	
Class A	0.00	Class C	0.29	Class A, B, or C	0.00
Class B	0.00	NA	0.71	Non-Attainment	1.00

<u>B or Better Model</u>		<u>A Model</u>	
Class A or B	0.00	Class A	0.01
Class C or Non-Attainment	1.00	Class B or C or Non-Attainment	0.99

Model Variables

01 Total Mean Abundance	397.33	18 Relative Abundance Ephemeroptera	0.00
02 Generic Richness	28.00	19 EPT Generic Richness	4.00
03 Plecoptera Mean Abundance	0.00	21 Sum of Abundances: <i>Dicrotendipes</i> , <i>Micropsectra</i> , <i>Parachironomus</i> , <i>Helobdella</i>	0.00
04 Ephemeroptera Mean Abundance	1.33	23 Relative Generic Richness- Plecoptera	0.00
05 Shannon-Wiener Generic Diversity	3.17	25 Sum of Abundances: <i>Cheumatopsyche</i> <i>Cricotopus</i> , <i>Tanytarsus</i> , <i>Ablabesmyia</i>	2.70
06 Hilsenhoff Biotic Index	6.69	26 Sum of Abundances: <i>Acroneuria</i> , <i>Maccaffertium</i> , <i>Stenonema</i>	0.00
07 Relative Abundance - Chironomidae	0.32	28 EP Generic Richness/14	0.07
08 Relative Generic Richness Diptera	0.46	30 Presence of Class A Indicator Taxa/7	0.00
09 <i>Hydropsyche</i> Abundance	0.00		
11 <i>Cheumatopsyche</i> Abundance	0.00		
12 EPT Generic Richness/ Diptera	0.31		
Generic Richness			
13 Relative Abundance - Oligochaeta	0.55		
15 Perlidae Mean Abundance	0.00		
(Family Functional Group)			
16 Tanypodinae Mean Abundance	1.35		
(Family Functional Group)			
17 Chironomini Abundance (Family	102.41		
Functional Group)			

Five Most Dominant Taxa

Rank	Taxon Name	Percent
1	<i>Limnodrilus</i>	28.78
2	<i>Stylodrilus</i>	22.14
3	<i>Polypedilum</i>	12.89
4	<i>Caecidotea</i>	9.73
5	<i>Stictochironomus</i>	9.50



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Waterbody: Unnamed Stream (brunswick 2) - Station

Date Retrieved: 8/13/2008

Sample Collection and Processing Information

Sampling Organization: BIOMONITORING UNIT

Taxonomist: MICHAEL WINNELL

Waterbody Information - Deployment

Temperature: 18.2 deg C
Dissolved Oxygen: 8.8 mg/l
Specific Conductance: 389 uS/cm
Velocity: 22 cm/s
pH: 6.88
Wetted Width: 2.2 m
Bankfull Width: 4.3 m
Depth: 12 cm

Waterbody Information - Retrieval

Temperature: 16.3 deg C
Dissolved Oxygen: 9.4 mg/l
Specific Conductance: 306 uS/cm
Velocity: 19 cm/s
pH: 6.76
Wetted Width: 2.2 m
Bankfull Width: 4.3 m
Depth: 18.5 cm

Water Chemistry - Retrieval

Summary of Habitat Characteristics

Landuse Name

Swamp Hardwood

Upland Hardwood

Urban

Canopy Cover

Canopy Dense

Terrain

Rolling Terrain

Stressor

Altered Hydrology Stressor

Urban Runoff Stressor

Location

Below Road Crossing

Below Urban NPS

Substrate

Detritus 5 %

Sand 95 %

Landcover Summary - 2004 Data

Total Area (ac)	810	High Int. Dev. %	16.1	Water %	0.1	Non-vegetated %	0.0
Total Land (ac)	809	Med Int. Dev. %	12.0	Wetland %	2.0	Tilled Agriculture %	0.0
		Low Int. Dev. %	26.7	Upland Woody %	20.6	Human Altered %	77.4
		Development %	54.8	Natural %	22.6	Impervious %	31.6

Sample Comments

BANKS ARE BLOWN OUT



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

Station Number: S-641 Waterbody: Unnamed Stream (Brunswick 2) - Station 64 Town: Brunswick
Log Number: 1722 Subsample Factor: X4 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
Nematoda	05	1.33	1.33		--	0.3	0.3
<i>Lumbriculus</i>	08020101002		1.33		CG		0.3
<i>Lumbriculus variegatus</i>	08020101002001	1.33			--	0.3	
Enchytraeidae	08020201	4.00	4.00		--	1.0	1.0
Tubificidae	08020203	84.00			--	21.1	
<i>Ilyodrilus</i>	08020203003		8.80		--		2.2
<i>Ilyodrilus templetoni</i>	08020203003001	5.33			--	1.3	
<i>Limnodrilus</i>	08020203005		114.36		CG		28.8
<i>Limnodrilus hoffmeisteri</i>	08020203005003	66.67			--	16.8	
<i>Limnodrilus udekemianus</i>	08020203005006	2.67			--	0.7	
<i>Spirosperma</i>	08020203007	1.33	2.20		--	0.3	0.6
<i>Stylodrilus</i>	08020203011		87.97		--		22.1
<i>Stylodrilus heringianus</i>	08020203011001	53.33			--	13.4	
Lumbricidae	08020205	1.33	1.33		--	0.3	0.3
<i>Caecidotea</i>	09010101001	33.33	38.67	8	SH	8.4	9.7
<i>Caecidotea racovitzai racovitzai</i>	09010101001002	5.33			--	1.3	
<i>Synurella</i>	09010202006		2.67		--		0.7
<i>Synurella chamberlaini</i>	09010202006001	2.67			--	0.7	
<i>Baetis</i>	09020401001		1.33	4	CG		0.3
<i>Baetis tricaudatus</i>	09020401001012	1.33			--	0.3	
<i>Phylocentropus</i>	09020603011	1.33	1.33	5	CF	0.3	0.3
<i>Pycnopsyche</i>	09020610049	1.33	1.33	4	SH	0.3	0.3
<i>Psychoglypha</i>	09020610060		1.33	0	SH		0.3
<i>Psychoglypha subborealis</i>	09020610060120	1.33			--	0.3	
Tipulidae	09021001	1.33	1.33		--	0.3	0.3
Chironomidae	09021011	1.33			--	0.3	
<i>Procladius</i>	09021011015	1.33	1.35	9	PR	0.3	0.3
<i>Diamesa</i>	09021011024	4.00	4.04	5	CG	1.0	1.0
<i>Prodiamesa</i>	09021011031		4.04	3	CG		1.0
<i>Prodiamesa olivacea</i>	09021011031048	4.00			--	1.0	
<i>Heterotrissocladius</i>	09021011044		8.09	0	CG		2.0
<i>Heterotrissocladius marcidus</i>	09021011044083	8.00			--	2.0	
<i>Paratanytarsus</i>	09021011071	1.33	1.35	6	--	0.3	0.3
<i>Tanytarsus</i>	09021011076	2.67	2.70	6	CF	0.7	0.7
<i>Chironomus</i>	09021011080	2.67	2.70	10	CG	0.7	0.7
<i>Cryptochironomus</i>	09021011082	2.67	2.70	8	PR	0.7	0.7
<i>Polypedilum</i>	09021011102		51.21	6	SH		12.9
<i>Polypedilum laetum</i>	09021011102186	1.33			--	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
<i>Polypedilum scalaenum group</i>	09021011102189	49.33			--	12.4	
<i>Stictochironomus</i>	090210111106	37.33	37.73	9	CG	9.4	9.5
<i>Tribelos</i>	090210111107		8.09	5	CG		2.0
<i>Tribelos jucundum</i>	09021011107198	8.00			--	2.0	
<i>Odontomesa</i>	090210111121		2.70	4	--		0.7
<i>Odontomesa fulva</i>	09021011121001	2.67			--	0.7	
Empididae	09021016			6	--		
Sphaeriidae	10020201	1.33	1.33		CF	0.3	0.3