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

Station Information

Station Number: S-875
Waterbody: Lord's Brook - Station 875
Town: Lyman
Directions: ROUTE 111 TO ROUTE 35; TURN ONTO DAVIS RD., FOLLOW ROAD TO STREAM

DEP Drainage: Piscataqua - Presumpscot - Saco
HUC8: 01060003
HUC8 Name: Piscataqua - Salmon Falls
Latitude: 43 30 4.85 N
Longitude: 70 37 7.2 W
Stream Order: 1

Sample Information

Log Number: 1708 Type of Sample: ROCK BAG Date Deployed: 7/11/2008
Subsample Factor: X4 Replicates: 3 Date Retrieved: 8/8/2008

Classification Attainment

Statutory Class: B **Final Determination: NA** Date: 10/14/2008
Model Result with P>.6: NA **Reason for Determination: Model**
Date Last Calculated: 3/18/2009 Comments:

Model Probabilities

First Stage Model			
Class A	0.00	Class C	0.00
Class B	0.00	NA	1.00

C or Better Model	
Class A, B, or C	0.00
Non-Attainment	1.00

B or Better Model	
Class A or B	0.00
Class C or Non-Attainment	1.00

A Model	
Class A	0.00
Class B or C or Non-Attainment	1.00

Model Variables

01	Total Mean Abundance	1709.33
02	Generic Richness	24.00
03	Plecoptera Mean Abundance	0.00
04	Ephemeroptera Mean Abundance	0.00
05	Shannon-Wiener Generic Diversity	2.41
06	Hilsenhoff Biotic Index	6.17
07	Relative Abundance - Chironomidae	0.90
08	Relative Generic Richness Diptera	0.63
09	*Hydropsyche* Abundance	46.67
11	*Cheumatopsyche* Abundance	0.00
12	EPT Generic Richness/ Diptera Generic Richness	0.13
13	Relative Abundance - Oligochaeta	0.01
15	Perlidae Mean Abundance (Family Functional Group)	0.00
16	Tanypodinae Mean Abundance (Family Functional Group)	76.46
17	Chironomini Abundance (Family Functional Group)	752.56
18	Relative Abundance Ephemeroptera	0.00
19	EPT Generic Richness	2.00
21	Sum of Abundances: *Dicrotendipes, Micropsectra, Parachironomus, Helobdella*	689.00
23	Relative Generic Richness- Plecoptera	0.00
25	Sum of Abundances: *Cheumatopsyche Cricotopus, Tanytarsus, Ablabesmyia*	5.37
26	Sum of Abundances: *Acroneuria, Maccaffertium, Stenonema*	0.00
28	EP Generic Richness/14	0.00
30	Presence of Class A Indicator Taxa/7	0.00

Five Most Dominant Taxa

Rank	Taxon Name	Percent
1	*Polypedilum*	40.26
2	*Micropsectra*	35.39
3	*Helobdella*	4.91
4	*Thienemannimyia*	4.47
5	*Parametriocnemus*	3.85

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Station Number: S-875 Town: Lyman Date Deployed: 7/11/2008
Log Number: 1708 Waterbody: Lord's Brook - Station 875 Date Retrieved: 8/8/2008

Sample Collection and Processing Information

Sampling Organization: BIOMONITORING UNIT

Taxonomist: LOTIC INC.

Waterbody Information - Deployment			Waterbody Information - Retrieval		
Temperature:	17.9	deg C	Temperature:	17.1	deg C
Dissolved Oxygen:	5	mg/l	Dissolved Oxygen:	6.7	mg/l
Specific Conductance:	168	uS/cm	Specific Conductance:	104	uS/cm
Velocity:	2	cm/s	Velocity:	130	cm/s
pH:	6.09		pH:	5.85	
Wetted Width:	1.8	m	Wetted Width:	3	m
Bankfull Width:	3	m	Bankfull Width:	3	m
Depth:	15	cm	Depth:	60	cm

Water Chemistry - Retrieval

Summary of Habitat Characteristics

Landuse Name	Canopy Cover	Terrain
Upland Hardwood	Canopy Dense	Rolling Terrain

Stressor	Location	Substrate	
BOD (Low DO) Stressor	Below Agriculture NPS	Boulder	10 %
Nutrients Stressor		Gravel	30 %
		Rubble/Cobble	40 %
		Sand	20 %

Landcover Summary - 2004 Data

Sample Comments

FUNGUS ALL OVER ROCK BAGS AND HIGH WATER AT PICK-UP; DARK WATER

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

Station Number: S-875 Waterbody: Lord's Brook - Station 875 Town: Lyman

Log Number: 1708 Subsample Factor: X4 Replicates: 3 Calculated: 3/18/2009

Taxon	Maine Taxonomic Code	Count (Mean of Samplers) Actual	Count (Mean of Samplers) Adjusted	Hilsenhoff Biotic Index	Functional Feeding Group	Relative Abundance Actual	Relative Abundance Adjusted
Lumbriculus	08020101002	1.33	1.33		CG	0.1	0.1
Enchytraeidae	08020201	2.67	2.67		--	0.2	0.2
Nais	08020202009	6.67	6.67		CG	0.4	0.4
Helobdella	08030101005		84.00		--		4.9
Helobdella stagnalis	08030101005004	84.00			--	4.9	
Hydropsyche	09020604016	46.67	46.67	4	CF	2.7	2.7
Phryganeidae	09020608	1.33	1.33		--	0.1	0.1
Nigronia	09020701003	1.33	1.33	0	PR	0.1	0.1
Sialis	09020702004	1.33	1.33	4	PR	0.1	0.1
Chironomidae	09021011	9.33			--	0.5	
Thienemannimyia	09021011020		76.46	3	PR		4.5
Thienemannimyia/arctopelopia group	09021011020041	76.00			--	4.4	
Cricotopus	09021011037		5.37	7	SH		0.3
Cricotopus bicinctus	09021011037057	5.33			--	0.3	
Eukiefferiella	09021011041	5.33	5.37	8	CG	0.3	0.3
Nanocladius	09021011049	9.33	9.39	3	CG	0.5	0.5
Orthocladius	09021011050		9.39	6	CG		0.5
Orthocladius annectens	09021011050092	9.33			--	0.5	
Parametriocnemus	09021011053	65.33	65.73	5	CG	3.8	3.8
Tvetenia	09021011065		2.68	5	CG		0.2
Tvetenia paucunca	09021011065114	2.67			--	0.2	
Micropsectra	09021011070	601.33	605.00	7	CG	35.2	35.4
Rheotanytarsus	09021011072	9.33	9.39	6	CF	0.5	0.5
Chironomus	09021011080	20.00	20.12	10	CG	1.2	1.2
Microtendipes	09021011094		17.44	6	CF		1.0
Microtendipes pedellus-grp.	09021011094166	17.33			--	1.0	
Paratendipes	09021011100	17.33	17.44	8	CG	1.0	1.0
Phaenopsectra	09021011101		9.39	7	SC		0.5
Phaenopsectra punctipes-grp.	09021011101181	9.33			--	0.5	
Polypedilum	09021011102	12.00	688.17	6	SH	0.7	40.3
Polypedilum aviceps	09021011102181	398.67			--	23.3	
Polypedilum flavum	09021011102182	21.33			--	1.2	
Polypedilum illinoense-grp.	09021011102185	252.00			--	14.7	
Simulium	09021012047	20.00	20.00	4	CF	1.2	1.2
Sphaeriidae	10020201	2.67	2.67		CF	0.2	0.2