



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

Station Information

Station Number: S-932
Waterbody: Capisic Brook - Station 932
Town: Portland
Directions: WARREN AVE. (BELOW CSO OUTFALL)
DEP Drainage: Piscataqua - Presumpscot - Saco
HUC8:
HUC8 Name:
Latitude: 43 41 9.49 N
Longitude: 70 18 45.72 W
Stream Order: 2

Sample Information

Log Number: 1836
Type of Sample: ROCK BAG
Date Deployed: 7/15/2009
Subsample Factor: X4
Replicates: 2
Date Retrieved: 8/11/2009

Classification Attainment

Statutory Class: C
Final Determination: NA
Date: 5/26/2010
Model Result with P>.6: NA
Reason for Determination: Model
Date Last Calculated: 5/26/2010
Comments:

Model Probabilities

First Stage Model		C or Better Model	
Class A	0.00	Class A, B, or C	0.00
Class B	0.00	Non-Attainment	1.00
B or Better Model		A Model	
Class A or B	0.00	Class A	0.03
Class C or Non-Attainment	1.00	Class B or C or Non-Attainment	0.97

Model Variables

01 Total Mean Abundance	2252.00	18 Relative Abundance Ephemeroptera	0.00
02 Generic Richness	15.00	19 EPT Generic Richness	3.00
03 Plecoptera Mean Abundance	0.00	21 Sum of Abundances: <i>Dicrotendipes</i> , <i>Micropsectra</i> , <i>Parachironomus</i> , <i>Helobdella</i>	39.11
04 Ephemeroptera Mean Abundance	0.00	23 Relative Generic Richness- Plecoptera	0.00
05 Shannon-Wiener Generic Diversity	0.98	25 Sum of Abundances: <i>Cheumatopsyche</i> , <i>Cricotopus</i> , <i>Tanytarsus</i> , <i>Ablabesmyia</i>	0.00
06 Hilsenhoff Biotic Index	4.35	26 Sum of Abundances: <i>Acroneuria</i> , <i>Maccaffertium</i> , <i>Stenonema</i>	0.00
07 Relative Abundance - Chironomidae	0.02	28 EP Generic Richness/14	0.00
08 Relative Generic Richness Diptera	0.33	30 Presence of Class A Indicator Taxa/7	0.00
09 <i>Hydropsyche</i> Abundance	2.67		
11 <i>Cheumatopsyche</i> Abundance	0.00		
12 EPT Generic Richness/ Diptera	0.60		
Generic Richness			
13 Relative Abundance - Oligochaeta	0.88		
15 Perlidae Mean Abundance	0.00		
(Family Functional Group)			
16 Tanypodinae Mean Abundance	0.00		
(Family Functional Group)			
17 Chironomini Abundance (Family	4.44		
Functional Group)			

Five Most Dominant Taxa

Rank	Taxon Name	Percent
1	<i>Limnodrilus</i>	83.92
2	<i>Gammarus</i>	9.15
3	Enchytraeidae	2.84
4	<i>Micropsectra</i>	1.38
5	<i>Stylodrilus</i>	0.98



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

Station Number: S-932

Town: Portland

Date Deployed: 7/15/2009

Log Number: 1836

Waterbody: Capisic Brook - Station 932

Date Retrieved: 8/11/2009

Sample Collection and Processing Information

Sampling Organization: BIOMONITORING UNIT

Taxonomist: MICHAEL WINNELL

Waterbody Information - Deployment

Temperature: 16.3 deg C
Dissolved Oxygen: 9.35 mg/l
Specific Conductance: 441 uS/cm
Velocity: 10.2 cm/s
pH:
Wetted Width: 2.4 m
Bankfull Width: 3.1 m
Depth: 18 cm

Waterbody Information - Retrieval

Temperature: 18.2 deg C
Dissolved Oxygen: 7.9 mg/l
Specific Conductance: 512 uS/cm
Velocity:
pH:
Wetted Width: 1.5 m
Bankfull Width: 2.1 m
Depth: 22 cm

Water Chemistry - 8/11/2009

Ammonia As Nitrogen	0.19 mg/l	Soluble Reactive Phosphorus	4 ug/l
Nitrate+nitrite As N	1.4 mg/l	Total Kjeldahl Nitrogen	1.1 mg/l
Total Suspended Solids	54 mg/l	Dissolved Organic Carbon	5.4 mg/l
Total Dissolved Solids	340 mg/l		

Summary of Habitat Characteristics

Landuse Name

Upland Hardwood
Urban

Canopy Cover

Open

Terrain

Flat

Potential Stressor

Urban Runoff

Location

Below Point Source

Substrate

Detritus 2 %
Gravel 3 %
Sand 95 %

Landcover Summary - 2004 Data

Sample Comments

POOR HABITAT QUALITY.

8/11/09: FLOW VISIBLE.



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

Station Number: S-932

Waterbody: Capisic Brook - Station 932

Town: Portland

Log Number: 1836

Subsample Factor: X4

Replicates: 2

Calculated: 5/26/2010

Taxon	Maine Taxonomic Code	Count (Mean of Samplers)		Hilsenhoff Biotic Index	Functional Feeding Group	Relative Abundance	
		Actual	Adjusted			Actual	Adjusted
<i>Stylodrilus</i>	08020101004		22.00		--		1.0
<i>Stylodrilus heringianus</i>	08020101004001	22.00			--	1.0	
Enchytraeidae	08020201	64.00	64.00		--	2.8	2.8
Naididae	08020202	382.00			--	17.0	
<i>Ophidonais</i>	08020202010		10.01		CG		0.4
<i>Ophidonais serpentina</i>	08020202010001	8.00			--	0.4	
<i>Limnodrilus</i>	08020202022		1889.99		CG		83.9
<i>Limnodrilus hoffmeisteri</i>	08020202022003	8.00			--	0.4	
<i>Limnodrilus udekemianus</i>	08020202022006	1502.00			--	66.7	
<i>Helobdella</i>	08030101005		8.00		--		0.4
<i>Helobdella stagnalis</i>	08030101005004	8.00			--	0.4	
<i>Erpobdella</i>	08030203002	2.00	2.00		--	0.1	0.1
<i>Gammarus</i>	09010201003		206.00	4	--		9.1
<i>Gammarus fasciatus</i>	09010201003003	206.00			--	9.1	
Hydropsychidae	09020604	2.00			--	0.1	
<i>Diplectrona</i>	09020604014		5.33	0	CF		0.2
<i>Diplectrona modesta</i>	09020604014025	4.00			--	0.2	
<i>Hydropsyche</i>	09020604016	2.00	2.67	4	CF	0.1	0.1
<i>Frenesia</i>	09020610058		2.00	0	SH		0.1
<i>Frenesia difficilis</i>	09020610058117	2.00			--	0.1	
Chironomidae	09021011	4.00			--	0.2	
<i>Eukiefferiella</i>	09021011041		2.22	8	CG		0.1
<i>Eukiefferiella claripennis group</i>	09021011041075	2.00			--	0.1	
<i>Micropsectra</i>	09021011070	28.00	31.11	7	CG	1.2	1.4
<i>Rheotanytarsus</i>	09021011072	2.00	2.22	6	CF	0.1	0.1
<i>Paratendipes</i>	09021011100		2.22	8	CG		0.1
<i>Paratendipes albimanus group</i>	09021011100176	2.00			--	0.1	
<i>Polypedilum</i>	09021011102		2.22	6	SH		0.1
<i>Polypedilum scalaenum group</i>	09021011102189	2.00			--	0.1	