



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

Station Information

Station Number: S-752
Waterbody: Long Creek - Station 752
Town: South Portland
Directions: ~30M UPSTREAM OF FODEN RD BY "ATLANTIC PLACE"

DEP Drainage: Piscataqua - Presumpscot - Saco
HUC8: 01060001
HUC8 Name: Presumpscot
Latitude: 43 38 11.9 N
Longitude: 70 19 44.51 W
Stream Order: 2

Sample Information

Log Number: 1932
Subsample Factor: X1
Type of Sample: ROCK BAG
Replicates: 2
Date Deployed: 7/19/2010
Date Retrieved: 8/16/2010

Classification Attainment

Statutory Class: C
Model Result with P>.6: NA
Date Last Calculated: 6/7/2011
Final Determination: NA
Reason for Determination: Model
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	0.00
Class C or Non-Attainment	1.00	Class B or C or Non-Attainment	1.00

Model Variables

01 Total Mean Abundance	67.00	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>	0.00
04 Ephemeroptera Mean Abundance	0.00	23 Relative Generic Richness- Plecoptera	0.00
05 Shannon-Wiener Generic Diversity	2.14	25 Sum of Abundances: <i>Cheumatopsyche</i> , <i>Cricotopus</i> , <i>Tanytarsus</i> , <i>Ablabesmyia</i>	35.25
06 Hilsenhoff Biotic Index	4.76	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	0.20	30 Presence of Class A Indicator Taxa/7	0.00
09 <i>Hydropsyche</i> Abundance	10.50		
11 <i>Cheumatopsyche</i> Abundance	34.50		
12 EPT Generic Richness/ Diptera Generic Richness	1.00		
13 Relative Abundance - Oligochaeta	0.01		
15 Perlidae Mean Abundance (Family Functional Group)	0.00		
16 Tanypodinae Mean Abundance (Family Functional Group)	0.00		
17 Chironomini Abundance (Family Functional Group)	0.00		

Five Most Dominant Taxa		
Rank	Taxon Name	Percent
1	<i>Cheumatopsyche</i>	51.49
2	<i>Stenelmis</i>	21.64
3	<i>Hydropsyche</i>	15.67
4	<i>Boyeria</i>	1.49
5	<i>Dubiraphia</i>	1.49



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Station Number: S-752

Town: South Portland

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Log Number: 1932

Waterbody: Long Creek - Station 752

Date Retrieved: 8/16/2010

Sample Collection and Processing Information

Sampling Organization: DEP DWM

Taxonomist: MICHAEL WINNELL

Waterbody Information - Deployment

Temperature: 21.8 deg C
Dissolved Oxygen: 6.84 mg/l
Specific Conductance: 750 uS/cm
Velocity: 4.5 cm/s
pH: 7.3
Wetted Width: 3.45 m
Bankfull Width: 5 m
Depth: 14 cm

Waterbody Information - Retrieval

Temperature: 19.3 deg C
Dissolved Oxygen: 6.99 mg/l
Specific Conductance: 370 uS/cm
Velocity: 15 cm/s
pH: 7.5
Wetted Width: 3.4 m
Bankfull Width: 7 m
Depth: 15.5 cm

Water Chemistry

Summary of Habitat Characteristics

Landuse Name

Upland Hardwood
Urban

Canopy Cover

Dense

Terrain

Flat

Potential Stressor

Altered Habitat
Altered Hydrology
Nps Pollution
Urban Runoff

Location

Below Urban NPS

Substrate

Clay 30 %
Rubble/Cobble 10 %
Sand 60 %

Landcover Summary - 2004 Data

Sample Comments

7/19/2010 RACCOON TRACKS. D.O. METER: HACH OPTICAL CALIBRATED IN THE OFFICE (DOES NOT NEED TO BE CALIBRATED DAILY), PH METER: YSI 85, CALIBRATED BEFORE EACH DAY OF SAMPLING

8/16/2010 ONE ROCK BAG MISSING, ONE ROCK BAG PARTIALLY BURIED. D.O. METER: HACH OPTICAL CALIBRATED IN THE OFFICE (DOES NOT NEED TO BE CALIBRATED DAILY), PH METER: YSI 85, CALIBRATED BEFORE EACH DAY OF SAMPLING



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

Station Number: S-752

Waterbody: Long Creek - Station 752

Town: South Portland

Log Number: 1932

Subsample Factor: X1

Replicates: 2

Calculated: 6/7/2011

Taxon	Maine Taxonomic Code	Count (Mean of Samplers)		Hilsenhoff Biotic Index	Functional Feeding Group	Relative Abundance	
		Actual	Adjusted			Actual	Adjusted
Naididae	08020202	0.50	0.50		--	0.7	0.7
<i>Glossiphonia</i>	08030101004		0.50		--		0.7
<i>Glossiphonia complanata</i>	08030101004001	0.50			--	0.7	
<i>Erpobdella</i>	08030203002		0.50		--		0.7
<i>Erpobdella punctata</i>	08030203002001	0.50			--	0.7	
<i>Boyeria</i>	09020301004		1.00	2	PR		1.5
<i>Boyeria vinosa</i>	09020301004012	1.00			--	1.5	
<i>Phylocentropus</i>	09020603011	0.50	0.50	5	CF	0.7	0.7
<i>Cheumatopsyche</i>	09020604015	34.50	34.50	5	CF	51.5	51.5
<i>Hydropsyche</i>	09020604016	5.00	10.50	4	CF	7.5	15.7
<i>Hydropsyche depravata complex</i>	09020604016041	5.50			CF	8.2	
<i>Nigronia</i>	09020701003		0.50	0	PR		0.7
<i>Nigronia serricornis</i>	09020701003003	0.50			--	0.7	
<i>Dicranota</i>	09021001005	0.50	0.50	3	PR	0.7	0.7
Chironomidae	09021011	0.50			--	0.7	
<i>Brillia</i>	09021011033		0.75	5	SH		1.1
<i>Brillia flavifrons</i>	09021011033049	0.50			--	0.7	
<i>Tanytarsus</i>	09021011076	0.50	0.75	6	CF	0.7	1.1
<i>Dubiraphia</i>	09021113064	1.00	1.00	6	--	1.5	1.5
<i>Macronychus</i>	09021113065		0.50	4	--		0.7
<i>Macronychus glabratus</i>	09021113065040	0.50			--	0.7	
<i>Stenelmis</i>	09021113070	14.50	14.50	5	SC	21.6	21.6
<i>Sphaerium</i>	10020201003		0.50		CF		0.7
<i>Sphaerium striatinum</i>	10020201003024	0.50			--	0.7	