

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

Station Information

Station Number: S752	DEP Drainage: Southern Maine
Waterbody: Long Creek	HUC Code: 01060001
Town: SOUTH PORTLAND	HUC Name: Presumpscot
Directions: ~30m upstream of Foden Rd by "Atlantic Place"	Latitude: Deg Min Sec
	Longitude: Deg Min Sec
	Stream Order:

Sample Information

Log Number: 1399	Type of Sample: Riffle Bags	Date Deployed: 26-JUL-04
Subsample Factor: X4	Replicates: 3	Date Retrieved: 23-AUG-04

Classification Attainment

Statutory Class: C	Final Determination: NA	
Model Result with P > .6: NA	Reason for Determination: Model	
Date Last Calculated:		

Model Probabilities

<u>First Stage Model</u>		<u>C or Better Model</u>	
Class A	0.00	Class A, B, or C	0.00
Class B	0.00	Non-Attainment	1.00
<u>B or Better Model</u>		<u>A Model</u>	
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 Abundance of Individuals	445.33	18 Relative Abundance - Ephemeroptera	0.00
02 Generic Richness	37.00	19 EPT Generic Richness	4.00
03 Plecoptera Abundance	0.00	21 Sum of Abundances: <i>Dicrotendipes</i> ,	22.65
04 Ephemeroptera Abundance	0.00	<i>Micropsectra, Parachironomus, Helobdella</i>	
05 Shannon - Wiener Diversity	3.51	23 Relative Generic Richness- Plecoptera	0.00
06 Hilsenhoff Biotic Index	6.00	25 Sum of Abundances: <i>Cheumatopsyche</i> ,	43.02
07 Relative Abundance - Chironomidae	0.73	<i>Cricotopus, Tanytarsus, Ablabesmyia</i>	
08 Relative Generic Richness - Diptera	0.38	26 Sum of Abundances: <i>Acroneuria, Stenonema</i>	0.00
09 <i>Hydropsyche</i> Abundance	7.33	28 EP Generic Richness/14	0.00
11 <i>Cheumatopsyche</i> Abundance	7.33	30 Presence of Class A Indicator Taxa/7	0.00
12 EPT Generic Richness/ Diptera Generic Richness	0.29		

Five Most Dominant Taxa

		Taxa Rank	Taxa Name	Percent
		1	Paratanytarsus	31.73
		2	Polypedilum	23.40
		3	Tanytarsus	7.69
		4	Tubificidae	5.99
		5	Caecidotea	3.29

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Station Number S752 Town: SOUTH PORTLAND Date Deployed: 26-JUL-04
Log Number: 1399 Waterbody: Long Creek Date Retrieved: 23-AUG-04

Sample Collection and Processing Information

Sampling Organization:
Taxonomist: Michael Winnell

Waterbody Information

Water Temperature: 19.5 °C	Specific Conductance 614.0 uS/cm	Channel Width: 2.2 m
Velocity:	Dissolved Oxygen: 9.1 ppm	Channel Depth: 20.0 cm

Summary of Habitat Characteristics

<u>Landuse Name</u>	<u>Canopy Cover</u>	<u>Stressor</u>	<u>Location</u>
Upland Conifer	Partly Open		Below Urban NPS
Upland Hardwood			
Urban			

Substrate

Silt	Detritus
95%	5%

Comments about the Station or Sample

8/23/04 Data:
Flow: 28.5cm/s; Depth:30cm; Temp: 18.1C; SPC: 365uS/cm; DO: 7.4mg/L; pH:

Comments about the Final Determination

**Maine Department of Environmental Protection
Biological Monitoring Unit**

Station Number: S752 Waterbody: Long Creek

Town: SOUTH PORTLAND

Log Number: 1399 Subsample: X4

Replicates: 3

Calculated:

BioME Aquatic Life Taxonomic Inventory Report

Taxa	Code	Count (Average of Baskets)		Biotic Index Value	Functional Feeding Group	Relative Abundance	
		Actual	Adjusted			Actual	Adjusted
		<i>Enchytraeidae</i>	08020201			4.00	4.00
<i>Nais</i>	08020202009	0.00	2.67		CG	0.0	0.6
<i>Nais variabilis</i>	08020202009009	2.67	0.00		--	0.6	0.0
<i>Pristinella</i>	08020202016	0.00	2.67		--	0.0	0.6
<i>Pristinella sima</i>	08020202016003	2.67	0.00		--	0.6	0.0
<i>Tubificidae</i>	08020203	26.67	26.67		--	6.0	6.0
<i>Limnodrilus</i>	08020203005	0.00	4.00		CG	0.0	0.9
<i>Limnodrilus hoffmeisteri</i>	08020203005003	4.00	0.00		--	0.9	0.0
<i>Lumbricidae</i>	08020205	2.67	2.67		--	0.6	0.6
<i>Glossiphonia</i>	08030101004	0.00	1.33		--	0.0	0.3
<i>Glossiphonia complanata</i>	08030101004001	1.33	0.00		--	0.3	0.0
<i>Helobdella</i>	08030101005	0.00	2.67		--	0.0	0.6
<i>Helobdella stagnalis</i>	08030101005004	2.67	0.00		--	0.6	0.0
<i>Erpobdella</i>	08030301002	0.00	8.00		--	0.0	1.8
<i>Erpobdella punctata</i>	08030301002001	8.00	0.00		--	1.8	0.0
<i>Caecidotea</i>	09010101001	9.33	14.67	8	SH	2.1	3.3
<i>Caecidotea communis</i>	09010101001001	5.33	0.00		--	1.2	0.0
<i>Crangonyx</i>	09010202004	2.67	2.67	8	--	0.6	0.6
<i>Aeshna</i>	09020301001	0.00	1.33	5	PR	0.0	0.3
<i>Aeshna umbrosa</i>	09020301001006	1.33	0.00		--	0.3	0.0
<i>Boyeria</i>	09020301004	0.00	1.33	2	PR	0.0	0.3
<i>Boyeria vinosa</i>	09020301004012	1.33	0.00		--	0.3	0.0
<i>Hydropsychidae</i>	09020604	1.33	0.00		--	0.3	0.0
<i>Cheumatopsyche</i>	09020604015	6.67	7.33	5	CF	1.5	1.6
<i>Hydropsyche</i>	09020604016	0.00	7.33	4	CF	0.0	1.6
<i>Hydropsyche depravata-complex</i>	09020604016041	6.67	0.00		CF	1.5	0.0
<i>Limnephilus</i>	09020610055	2.67	2.67	3	SH	0.6	0.6
<i>Glyphopsyche</i>	09020610059	0.00	4.00	1	--	0.0	0.9
<i>Glyphopsyche irrorata</i>	09020610059119	4.00	0.00		--	0.9	0.0
<i>Chironomidae</i>	09021011	21.33	0.00		--	4.8	0.0
<i>Meropelopia</i>	09021011010	1.33	1.43		--	0.3	0.3
<i>Corynoneura</i>	09021011036	1.33	1.43	7	CG	0.3	0.3
<i>Cricotopus</i>	09021011037	0.00	1.43	7	SH	0.0	0.3
<i>Cricotopus bicinctus</i>	09021011037057	1.33	0.00		--	0.3	0.0
<i>Parakiefferiella</i>	09021011052	1.33	1.43		CG	0.3	0.3
<i>Tvetenia</i>	09021011065	0.00	1.43	5	CG	0.0	0.3

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Taxa	Code	Count (Average of Baskets)		Biotic Index Value	Functional Feeding Group	Relative Abundance	
		Actual	Adjusted			Actual	Adjusted
		<i>Tvetenia paucunca</i>	09021011065114			1.33	0.00
<i>Micropsectra</i>	09021011070	8.00	8.56	7	CG	1.8	1.9
<i>Paratanytarsus</i>	09021011071	132.00	141.30	6	--	29.6	31.7
<i>Rheotanytarsus</i>	09021011072	4.00	4.28	6	CF	0.9	1.0
<i>Tanytarsus</i>	09021011076	29.33	34.26	6	CF	6.6	7.7
<i>Tanytarsus glabrescens</i>	09021011076134	2.67	0.00		--	0.6	0.0
<i>Chironomus</i>	09021011080	1.33	1.43	10	CG	0.3	0.3
<i>Dicrotendipes</i>	09021011085	10.67	11.42	8	CG	2.4	2.6
<i>Polypedilum</i>	09021011102	1.33	104.19	6	SH	0.3	23.4
<i>Polypedilum flavum</i>	09021011102182	1.33	0.00		--	0.3	0.0
<i>Polypedilum illinoense-grp.</i>	09021011102185	2.67	0.00		--	0.6	0.0
<i>Polypedilum scalaenum-grp.</i>	09021011102189	56.00	0.00		--	12.6	0.0
<i>Polypedilum halterale-grp.</i>	09021011102193	36.00	0.00		--	8.1	0.0
<i>Tribelos</i>	09021011107	0.00	11.42	5	CG	0.0	2.6
<i>Tribelos jucundum</i>	09021011107198	10.67	0.00		--	2.4	0.0
<i>Chrysops</i>	09021014052	2.67	2.67	6	CG	0.6	0.6
<i>Dubiraphia</i>	09021113064	8.00	8.00	6	CG	1.8	1.8
<i>Stenelmis</i>	09021113070	4.00	5.33	5	SC	0.9	1.2
<i>Stenelmis crenata</i>	09021113070055	1.33	0.00		--	0.3	0.0
<i>Physa</i>	10010202026	1.33	1.33		SC	0.3	0.3
<i>Helisoma</i>	10010203030	0.00	2.67		SC	0.0	0.6
<i>Helisoma anceps</i>	10010203030058	2.67	0.00		--	0.6	0.0
<i>Pisidium</i>	10020201002	1.33	4.00		CF	0.3	0.9
<i>Pisidium compressum</i>	10020201002007	2.67	0.00		CF	0.6	0.0
<i>Sphaerium</i>	10020201003	0.00	1.33		CF	0.0	0.3
<i>Sphaerium striatinum</i>	10020201003024	1.33	0.00		--	0.3	0.0