

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

**Station Information**

<b>Station Number:</b> S820	DEP Drainage: Maine Coastal
<b>Waterbody:</b> Western Little River	HUC Code: 01050002
<b>Town:</b> COLUMBIA	HUC Name: Maine Coastal
<b>Directions:</b> 60m upstrm of Saco Road	Latitude: Deg Min Sec
	Longitude: Deg Min Sec
	Stream Order:

**Sample Information**

<b>Log Number:</b> 1580	Type of Sample: Riffle Bags	Date Deployed: 25-JUL-06
Subsample Factor: X4	Replicates: 3	Date Retrieved: 22-AUG-06

**Classification Attainment**

Statutory Class: AA	<b>Final Determination:</b> C	
Model Result with P > .6: C	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	1.00
Class B	0.03	Non-Attainment	0.00
		Class C	0.95
		Class NA	0.02
<u>B or Better Model</u>		<u>A Model</u>	
Class A or B	0.01	Class A	0.06
Class C or Non-Attainment	0.99	Class B or C or Non-Attainment	0.94

**Model Variables**

01 Total Abundance of Individuals	417.33	18 Relative Abundance - Ephemeroptera	0.07
02 Generic Richness	53.00	19 EPT Generic Richness	21.00
03 Plecoptera Abundance	0.00	21 Sum of Abundances: <i>Dicrotendipes</i> ,	5.51
04 Ephemeroptera Abundance	28.00	<i>Micropsectra, Parachironomus, Helobdella</i>	
05 Shannon - Wiener Diversity	4.22	23 Relative Generic Richness- Plecoptera	0.00
06 Hilsenhoff Biotic Index	5.57	25 Sum of Abundances: <i>Cheumatopsyche</i> ,	54.10
07 Relative Abundance - Chironomidae	0.30	<i>Cricotopus, Tanytarsus, Ablabesmyia</i>	
08 Relative Generic Richness - Diptera	0.34	26 Sum of Abundances: <i>Acroneuria, Stenonema</i>	1.33
09 <i>Hydropsyche</i> Abundance	1.33	28 EP Generic Richness/14	0.64
11 <i>Cheumatopsyche</i> Abundance	5.33	30 Presence of Class A Indicator Taxa/7	0.29
12 EPT Generic Richness/ Diptera Generic Richness	1.17		

**Five Most Dominant Taxa**

		Taxa Rank	Taxa Name	Percent
13 Relative Abundance - Oligochaeta	0.02	1	Amnicola	26.20
15 Perlidae Abundance (Family Functional Group)	0.00	2	Cernotina	11.92
16 Tanypodinae Abundance (Family Functional Group)	4.18	3	Tanytarsus	10.35
17 Chironomini Abundance (Family Functional Group)	19.51	4	Polycentropus	7.83
		5	Rheotanytarsus	5.34

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

---

Station Number S820	Town: COLUMBIA	Date Deployed: 25-JUL-06
Log Number: 1580	Waterbody: Western Little River	Date Retrieved: 22-AUG-06

---

**Sample Collection and Processing Information**

---

Sampling Organization: DEP  
Taxonomist: Michael Winnell

---

**Waterbody Information**

---

Water Temperature: 19.2 °C	Specific Conductance 23.0 uS/cm	Channel Width: 20.0 m
Velocity: 26 cm/s	Dissolved Oxygen: 8.6 ppm	Channel Depth: 68.0 cm

---

**Summary of Habitat Characteristics**

---

<u>Landuse Name</u>	<u>Canopy Cover</u>	<u>Stressor</u>	<u>Location</u>
Upland Conifer	Open		Above Road Crossing
Upland Hardwood			

---

**Substrate**

---

Boulder	Rubble	Gravel	Sand	Silt
5%	10%	40%	40%	5%

---

**Comments about the Station or Sample**

---

8/22/06: Width: 20m; Flow: 26cm/s; Depth: 55cm; T: 16.4C; SPC: 23uS/cm; DO: 8.3mg/L; pH: 5.79.

---

**Comments about the Final Determination**

---

Resample to confirm aquatic life classification.

---

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

**Station Number:** S820

**Waterbody:** Western Little River

**Town:** COLUMBIA

**Log Number:** 1580

**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>Chaetogaster</i>	08020202002			0.00	2.67
<i>Chaetogaster diastrophus</i>	08020202002002	2.67	0.00		--	0.6	0.0
<i>Nais</i>	08020202009	0.00	2.67		CG	0.0	0.6
<i>Nais simplex</i>	08020202009008	2.67	0.00		--	0.6	0.0
<i>Stylaria</i>	08020202014	0.00	2.67		CG	0.0	0.6
<i>Stylaria lacustris</i>	08020202014002	2.67	0.00		--	0.6	0.0
<i>Helobdella</i>	08030101005	0.00	1.33		--	0.0	0.3
<i>Helobdella triserialis</i>	08030101005005	1.33	0.00		--	0.3	0.0
<i>Aeshnidae</i>	09020301	2.67	2.67		--	0.6	0.6
<i>Calopterygidae</i>	09020307	4.00	4.00		--	1.0	1.0
<i>Calopteryx</i>	09020307043	0.00	4.00	5	PR	0.0	1.0
<i>Calopteryx aequabilis</i>	09020307043085	1.33	0.00		--	0.3	0.0
<i>Calopteryx maculata</i>	09020307043088	2.67	0.00		--	0.6	0.0
<i>Baetis</i>	09020401001	0.00	1.33	4	CG	0.0	0.3
<i>Baetis flavistriga</i>	09020401001004	1.33	0.00		--	0.3	0.0
<i>Callibaetis</i>	09020401002	1.33	1.33	9	CG	0.3	0.3
<i>Plauditus</i>	09020401012	1.33	1.33		CG	0.3	0.3
<i>Leucrocuta</i>	09020402011	1.33	1.33	1	SC	0.3	0.3
<i>Stenacron</i>	09020402014	0.00	2.67	7	SC	0.0	0.6
<i>Stenacron interpunctatum</i>	09020402014045	2.67	0.00		--	0.6	0.0
<i>Stenonema</i>	09020402015	1.33	1.33	4	SC	0.3	0.3
<i>Leptophlebiidae</i>	09020406	8.00	8.00		--	1.9	1.9
<i>Paraleptophlebia</i>	09020406026	2.67	2.67	1	CG	0.6	0.6
<i>Eurylophella</i>	09020410036	8.00	8.00	3	CG	1.9	1.9
<i>Chimarra</i>	09020601003	1.33	1.33	2	CF	0.3	0.3
<i>Polycentropodidae</i>	09020603	5.33	0.00		--	1.3	0.0
<i>Cernotina</i>	09020603006	46.67	49.73		PR	11.2	11.9
<i>Neureclipsis</i>	09020603008	1.33	1.42	7	CF	0.3	0.3
<i>Nyctiophylax</i>	09020603009	0.00	1.42	5	PR	0.0	0.3
<i>Nyctiophylax moestus</i>	09020603009013	1.33	0.00		--	0.3	0.0
<i>Polycentropus</i>	09020603010	30.67	32.68	6	PR	7.3	7.8
<i>Phylocentropus</i>	09020603011	1.33	1.42	5	CF	0.3	0.3
<i>Cheumatopsyche</i>	09020604015	5.33	5.33	5	CF	1.3	1.3
<i>Hydropsyche</i>	09020604016	0.00	1.33	4	CF	0.0	0.3
<i>Hydropsyche morosa</i>	09020604016030	1.33	0.00		--	0.3	0.0
<i>Hydroptila</i>	09020607026	1.33	1.33	6	P	0.3	0.3
<i>Molanna</i>	09020615069	0.00	1.33	6	SC	0.0	0.3

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

**Station Number:** S820

**Waterbody:** Western Little River

**Town:** COLUMBIA

**Log Number:** 1580

**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>Molanna blenda</i>	09020615069133			1.33	0.00
<i>Mystacides</i>	09020618075	0.00	1.33	4	CG	0.0	0.3
<i>Mystacides sepulchralis</i>	09020618075147	1.33	0.00		--	0.3	0.0
<i>Oecetis</i>	09020618078	0.00	8.00	8	PR	0.0	1.9
<i>Oecetis persimilis</i>	09020618078157	8.00	0.00		--	1.9	0.0
<i>Nigronia</i>	09020701003	0.00	1.33	0	PR	0.0	0.3
<i>Nigronia serricornis</i>	09020701003003	1.33	0.00		--	0.3	0.0
<i>Paraponyx</i>	09020901002	1.33	1.33	5	SH	0.3	0.3
<i>Chironomidae</i>	09021011	5.33	0.00		--	1.3	0.0
<i>Ablabesmyia</i>	09021011001	0.00	2.79	8	PR	0.0	0.7
<i>Ablabesmyia mallochi</i>	09021011001004	2.67	0.00		--	0.6	0.0
<i>Labrundinia</i>	09021011008	0.00	1.39	7	PR	0.0	0.3
<i>Labrundinia pilosella</i>	09021011008022	1.33	0.00		--	0.3	0.0
<i>Corynoneura</i>	09021011036	1.33	1.39	7	CG	0.3	0.3
<i>Cricotopus</i>	09021011037	0.00	2.79	7	SH	0.0	0.7
<i>Cricotopus bicinctus</i>	09021011037057	2.67	0.00		--	0.6	0.0
<i>Nanocladius</i>	09021011049	1.33	1.39	3	CG	0.3	0.3
<i>Orthocladius</i>	09021011050	0.00	8.36	6	CG	0.0	2.0
<i>Orthocladius annectens</i>	09021011050092	8.00	0.00		--	1.9	0.0
<i>Thienemanniella</i>	09021011062	0.00	2.79	6	CG	0.0	0.7
<i>Thienemanniella xena</i>	09021011062110	2.67	0.00		--	0.6	0.0
<i>Tvetenia</i>	09021011065	0.00	2.79	5	CG	0.0	0.7
<i>Tvetenia vitracies</i>	09021011065113	1.33	0.00		--	0.3	0.0
<i>Tvetenia paucunca</i>	09021011065114	1.33	0.00		--	0.3	0.0
<i>Micropsectra</i>	09021011070	4.00	4.18	7	CG	1.0	1.0
<i>Paratanytarsus</i>	09021011071	2.67	2.79	6	--	0.6	0.7
<i>Rheotanytarsus</i>	09021011072	21.33	22.29	6	CF	5.1	5.3
<i>Stempellinella</i>	09021011074	4.00	8.36	2	--	1.0	2.0
<i>Stempellinella sp. A Epler</i>	09021011074002	4.00	0.00		--	1.0	0.0
<i>Tanytarsus</i>	09021011076	16.00	43.19	6	CF	3.8	10.3
<i>Tanytarsus glabrescens</i>	09021011076134	25.33	0.00		--	6.1	0.0
<i>Pseudochironomus</i>	09021011078	1.33	1.39	5	CG	0.3	0.3
<i>Microtendipes</i>	09021011094	0.00	5.57	6	CF	0.0	1.3
<i>Microtendipes rydalensis-grp.</i>	09021011094168	5.33	0.00		--	1.3	0.0
<i>Nilothauma</i>	09021011095	1.33	1.39	2	--	0.3	0.3
<i>Polypedilum</i>	09021011102	0.00	11.15	6	SH	0.0	2.7
<i>Polypedilum aviceps</i>	09021011102181	10.67	0.00		--	2.6	0.0

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

**Station Number:** S820    **Waterbody:** Western Little River

**Town:** COLUMBIA

**Log Number:** 1580    **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>Atherix</i>	09021015055			1.33	1.33
<i>Dubiraphia</i>	09021113064	13.33	13.33	6	CG	3.2	3.2
<i>Promoresia</i>	09021113069	0.00	9.33		--	0.0	2.2
<i>Promoresia tardella</i>	09021113069052	9.33	0.00		--	2.2	0.0
<i>Sperchonopsis</i>	09030107002	1.33	1.33		--	0.3	0.3
<i>Amnicola</i>	10010104013	0.00	109.33		SC	0.0	26.2
<i>Amnicola limosa</i>	10010104013018	109.33	0.00		--	26.2	0.0
<i>Pisidium</i>	10020201002	0.00	1.33		CF	0.0	0.3
<i>Pisidium compressum</i>	10020201002007	1.33	0.00		CF	0.3	0.0