

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

**Station Information**

<b>Station Number:</b> S821	DEP Drainage: Maine Coastal
<b>Waterbody:</b> Little River	HUC Code: 01050002
<b>Town:</b> COLUMBIA FALLS	HUC Name: Maine Coastal
<b>Directions:</b> 17m upstrm of Cross Rd	Latitude: Deg Min Sec
	Longitude: Deg Min Sec
	Stream Order:

**Sample Information**

<b>Log Number:</b> 1581	Type of Sample: Riffle Bags	Date Deployed: 25-JUL-06
Subsample Factor: X1	Replicates: 3	Date Retrieved: 22-AUG-06

**Classification Attainment**

Statutory Class:	A	<b>Final Determination:</b>	A
Model Result with P > .6	A	Reason for Determination:	Model
Date Last Calculated:			

**Model Probabilities**

<u>First Stage Model</u>		<u>C or Better Model</u>	
Class A	0.54	Class A, B, or C	1.00
Class B	0.43	Non-Attainment	0.00
<u>B or Better Model</u>		<u>A Model</u>	
Class A or B	1.00	Class A	0.99
Class C or Non-Attainment	0.00	Class B or C or Non-Attainment	0.01

**Model Variables**

01 Total Abundance of Individuals	292.00	18 Relative Abundance - Ephemeroptera	0.29
02 Generic Richness	58.00	19 EPT Generic Richness	24.00
03 Plecoptera Abundance	1.00	21 Sum of Abundances: <i>Dicrotendipes</i> ,	1.03
04 Ephemeroptera Abundance	86.00	<i>Micropsectra, Parachironomus, Helobdella</i>	
05 Shannon - Wiener Diversity	4.13	23 Relative Generic Richness- Plecoptera	0.03
06 Hilsenhoff Biotic Index	4.94	25 Sum of Abundances: <i>Cheumatopsyche</i> ,	10.92
07 Relative Abundance - Chironomidae	0.36	<i>Cricotopus, Tanytarsus, Ablabesmyia</i>	
08 Relative Generic Richness - Diptera	0.34	26 Sum of Abundances: <i>Acroneuria, Stenonema</i>	49.47
09 <i>Hydropsyche</i> Abundance	3.33	28 EP Generic Richness/14	0.93
11 <i>Cheumatopsyche</i> Abundance	1.00	30 Presence of Class A Indicator Taxa/7	0.57
12 EPT Generic Richness/ Diptera Generic Richness	1.20		

**Five Most Dominant Taxa**

		Taxa Rank	Taxa Name	Percent
13 Relative Abundance - Oligochaeta	0.01	1	Rheotanytarsus	22.36
15 Perlidae Abundance (Family Functional Group)	0.00	2	Stenonema	16.94
16 Tanypodinae Abundance (Family Functional Group)	5.13	3	Promoresia	8.56
17 Chironomini Abundance (Family Functional Group)	22.57	4	Amnicola	7.76
		5	Polypedilum	6.56

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**Sample Collection and Processing Information**

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Sampling Organization: DEP  
Taxonomist:      Michael Winnell

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**Waterbody Information**

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Water Temperature: 19.6 °C	Specific Conductance 23.0 uS/cm	Channel Width: 6.4 m
Velocity: 52 cm/s	Dissolved Oxygen: 7.8 ppm	Channel Depth: 62.0 cm

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**Summary of Habitat Characteristics**

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

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**Substrate**

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Boulder	Rubble	Gravel	Sand
10%	55%	20%	15%

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**Comments about the Station or Sample**

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8/22/06 Data:  
Flow: 27cm/s; Depth: 54cm; Temp: 17C; SPC: 32uS/cm; DO: 8.1mg/L; pH: 5.91.

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**Comments about the Final Determination**

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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>Cura</i>	03010101001			0.00	0.67
<i>Cura foremanii</i>	03010101001001	0.67	0.00		--	0.2	0.0
<i>Nais</i>	08020202009	0.00	2.33		CG	0.0	0.8
<i>Nais behningi</i>	08020202009003	0.67	0.00		--	0.2	0.0
<i>Nais communis</i>	08020202009005	0.33	0.00		--	0.1	0.0
<i>Nais simplex</i>	08020202009008	1.00	0.00		--	0.3	0.0
<i>Nais variabilis</i>	08020202009009	0.33	0.00		--	0.1	0.0
<i>Taeniopteryx</i>	09020202014	0.67	0.67	2	SC	0.2	0.2
<i>Paracapnia</i>	09020203018	0.33	0.33	1	SH	0.1	0.1
<i>Boyeria</i>	09020301004	0.00	3.00	2	PR	0.0	1.0
<i>Boyeria grafiana</i>	09020301004011	0.33	0.00		--	0.1	0.0
<i>Boyeria vinosa</i>	09020301004012	2.67	0.00		--	0.9	0.0
<i>Gomphidae</i>	09020302	0.67	0.67		--	0.2	0.2
<i>Calopterygidae</i>	09020307	1.33	1.33		--	0.5	0.5
<i>Calopteryx</i>	09020307043	0.00	0.33	5	PR	0.0	0.1
<i>Calopteryx aequabilis</i>	09020307043085	0.33	0.00		--	0.1	0.0
<i>Pseudocloeon</i>	09020401006	0.00	0.67	4	SC	0.0	0.2
<i>Pseudocloeon frondale</i>	09020401006029	0.67	0.00		--	0.2	0.0
<i>Acerpenna</i>	09020401007	0.00	0.33	5	CG	0.0	0.1
<i>Acerpenna pygmaea</i>	09020401007011	0.33	0.00		--	0.1	0.0
<i>Heptageniidae</i>	09020402	7.00	0.00		--	2.4	0.0
<i>Leucrocuta</i>	09020402011	3.67	4.15	1	SC	1.3	1.4
<i>Stenacron</i>	09020402014	0.00	6.04	7	SC	0.0	2.1
<i>Stenacron interpunctatum</i>	09020402014045	5.33	0.00		--	1.8	0.0
<i>Stenonema</i>	09020402015	28.00	49.47	4	SC	9.6	16.9
<i>Stenonema luteum</i>	09020402015049	14.33	0.00		--	4.9	0.0
<i>Stenonema modestum</i>	09020402015051	1.00	0.00		--	0.3	0.0
<i>Stenonema vicarium</i>	09020402015055	0.33	0.00		--	0.1	0.0
<i>Leptophlebiidae</i>	09020406	1.67	0.00		--	0.6	0.0
<i>Habrophlebia</i>	09020406023	0.33	0.89		--	0.1	0.3
<i>Paraleptophlebia</i>	09020406026	0.67	1.78	1	CG	0.2	0.6
<i>Ephemerella</i>	09020410035	0.67	1.00	1	CG	0.2	0.3
<i>Ephemerella invaria</i>	09020410035107	0.33	0.00		--	0.1	0.0
<i>Eurylophella</i>	09020410036	19.00	19.00	3	CG	6.5	6.5
<i>Serratella</i>	09020410037	0.00	0.33	2	CG	0.0	0.1
<i>Serratella serratoides</i>	09020410037124	0.33	0.00		--	0.1	0.0
<i>Tricorythodes</i>	09020411038	2.33	2.33	4	CG	0.8	0.8

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**Calculated:**

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Taxa	Code	Count (Average of Baskets)		Biotic Index Value	Functional Feeding Group	Relative Abundance	
		Actual	Adjusted			Actual	Adjusted
		<i>Cernotina</i>	09020603006			0.33	0.33
<i>Neureclipsis</i>	09020603008	4.33	4.33	7	CF	1.5	1.5
<i>Nyctiophylax</i>	09020603009	0.00	0.67	5	PR	0.0	0.2
<i>Nyctiophylax moestus</i>	09020603009013	0.67	0.00		--	0.2	0.0
<i>Polycentropus</i>	09020603010	1.33	1.33	6	PR	0.5	0.5
<i>Cheumatopsyche</i>	09020604015	1.00	1.00	5	CF	0.3	0.3
<i>Hydropsyche</i>	09020604016	2.00	3.33	4	CF	0.7	1.1
<i>Hydropsyche bronta</i>	09020604016029	0.67	0.00		--	0.2	0.0
<i>Hydropsyche morosa</i>	09020604016030	0.33	0.00		--	0.1	0.0
<i>Hydropsyche sparna</i>	09020604016032	0.33	0.00		--	0.1	0.0
<i>Psilotreta</i>	09020614068	0.00	0.67	0	SC	0.0	0.2
<i>Psilotreta indecisa</i>	09020614068132	0.67	0.00		--	0.2	0.0
<i>Helicopsyche</i>	09020616070	0.00	3.33	3	SC	0.0	1.1
<i>Helicopsyche borealis</i>	09020616070137	3.33	0.00		--	1.1	0.0
<i>Ceraclea</i>	09020618072	1.33	1.33	3	CG	0.5	0.5
<i>Nectopsyche</i>	09020618074	1.00	1.00	3	SH	0.3	0.3
<i>Oecetis</i>	09020618078	0.33	7.33	8	PR	0.1	2.5
<i>Oecetis persimilis</i>	09020618078157	7.00	0.00		--	2.4	0.0
<i>Chironomidae</i>	09021011	2.67	0.00		--	0.9	0.0
<i>Ablabesmyia</i>	09021011001	0.33	1.37	8	PR	0.1	0.5
<i>Ablabesmyia mallochi</i>	09021011001004	1.00	0.00		--	0.3	0.0
<i>Labrundinia</i>	09021011008	0.33	0.34	7	PR	0.1	0.1
<i>Meropelopia</i>	09021011010	0.33	0.34		--	0.1	0.1
<i>Paramerina</i>	09021011013	2.33	2.39		--	0.8	0.8
<i>Trissopelopia</i>	09021011021	0.00	0.68		PR	0.0	0.2
<i>Trissopelopia ogemawi</i>	09021011021042	0.67	0.00		--	0.2	0.0
<i>Cricotopus</i>	09021011037	0.33	1.37	7	SH	0.1	0.5
<i>Cricotopus bicinctus</i>	09021011037057	1.00	0.00		--	0.3	0.0
<i>Orthocladius</i>	09021011050	0.00	1.37	6	CG	0.0	0.5
<i>Orthocladius annectens</i>	09021011050092	1.33	0.00		--	0.5	0.0
<i>Parakiefferiella</i>	09021011052	0.33	0.34		CG	0.1	0.1
<i>Psectrocladius</i>	09021011056	0.33	0.34	8	CG	0.1	0.1
<i>Rheocricotopus</i>	09021011057	0.33	0.34	6	CG	0.1	0.1
<i>Tvetenia</i>	09021011065	0.00	1.03	5	CG	0.0	0.4
<i>Tvetenia paucunca</i>	09021011065114	1.00	0.00		--	0.3	0.0
<i>Micropsectra</i>	09021011070	0.67	0.68	7	CG	0.2	0.2
<i>Rheotanytarsus</i>	09021011072	63.67	65.30	6	CF	21.8	22.4

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		<i>Stempellinella</i>	09021011074			0.33	0.68
<i>Stempellinella sp. A Epler</i>	09021011074002	0.33	0.00		--	0.1	0.0
<i>Tanytarsus</i>	09021011076	5.33	7.18	6	CF	1.8	2.5
<i>Tanytarsus glabrescens</i>	09021011076134	1.67	0.00		--	0.6	0.0
<i>Dicrotendipes</i>	09021011085	0.33	0.34	8	CG	0.1	0.1
<i>Microtendipes</i>	09021011094	0.33	3.08	6	CF	0.1	1.1
<i>Microtendipes pedellus-grp.</i>	09021011094166	1.00	0.00		--	0.3	0.0
<i>Microtendipes rydalensis-grp.</i>	09021011094168	1.67	0.00		--	0.6	0.0
<i>Polypedilum</i>	09021011102	0.67	19.15	6	SH	0.2	6.6
<i>Polypedilum aviceps</i>	09021011102181	17.67	0.00		--	6.1	0.0
<i>Polypedilum illinoense-grp.</i>	09021011102185	0.33	0.00		--	0.1	0.0
<i>Simulium</i>	09021012047	7.00	8.67	4	CF	2.4	3.0
<i>Simulium tuberosum</i>	09021012047067	1.67	0.00		--	0.6	0.0
<i>Atherix</i>	09021015055	2.33	2.33	2	PR	0.8	0.8
<i>Psephenus</i>	09021108058	0.00	0.33	4	SC	0.0	0.1
<i>Psephenus herricki</i>	09021108058028	0.33	0.00		--	0.1	0.0
<i>Dubiraphia</i>	09021113064	3.33	3.33	6	CG	1.1	1.1
<i>Macronychus</i>	09021113065	0.00	0.33	4	--	0.0	0.1
<i>Macronychus glabratus</i>	09021113065040	0.33	0.00		--	0.1	0.0
<i>Optioservus</i>	09021113067	0.33	0.33	3	SC	0.1	0.1
<i>Promoresia</i>	09021113069	0.00	25.00		--	0.0	8.6
<i>Promoresia tardella</i>	09021113069052	25.00	0.00		--	8.6	0.0
<i>Stenelmis</i>	09021113070	0.00	0.33	5	SC	0.0	0.1
<i>Stenelmis crenata</i>	09021113070055	0.33	0.00		--	0.1	0.0
<i>Acariformes</i>	090301	0.67	0.67		--	0.2	0.2
<i>Sperchonopsis</i>	09030107002	0.67	0.67		--	0.2	0.2
<i>Gastropoda</i>	1001	1.00	1.00		--	0.3	0.3
<i>Amnicola</i>	10010104013	0.00	22.67		SC	0.0	7.8
<i>Amnicola limosa</i>	10010104013018	22.67	0.00		--	7.8	0.0