



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

Station Information

Station Number: S-1115	River Basin: Maine Coastal
Waterbody: Creamer Brook - Station 1115	HUC8 Name: Maine Coastal
Town: T19 Ed Bpp	Latitude: 44 58 16.07 N
Directions: SITE IS DOWNSTREAM OF THE OLD BRIDGE LOCATION.	Longitude: 67 30 33.57 W
	Stream Order: 2

Sample Information

Log Number: 2690	Type of Sample: ROCK BAG	Date Deployed: 7/25/2018
Subsample Factor: X1	Replicates: 3	Date Retrieved: 8/21/2018

Classification Attainment

Statutory Class: AA	Final Determination: A	Date: 2/1/2019
Model Result with $P \geq 0.6$: A	Reason for Determination: Model	
Date Last Calculated: 1/31/2019	Comments:	

Model Probabilities

<u>First Stage Model</u>		<u>C or Better Model</u>	
Class A	0.84	Class C	0.00
Class B	0.15	NA	0.00
<u>B or Better Model</u>		<u>A Model</u>	
Class A or B	1.00	Class A	1.00
Class C or Non-Attainment	0.00	Class B or C or Non-Attainment	0.00

Model Variables

01 Total Mean Abundance	246.33	18 Relative Abundance Ephemeroptera	0.77
02 Generic Richness	37.00	19 EPT Generic Richness	16.00
03 Plecoptera Mean Abundance	0.33	21 Sum of Abundances: <i>Dicrotendipes, Micropsectra, Parachironomus, Helobdella</i>	0.33
04 Ephemeroptera Mean Abundance	190.33	23 Relative Generic Richness- Plecoptera	0.03
05 Shannon-Wiener Generic Diversity	2.64	25 Sum of Abundances: <i>Cheumatopsyche, Cricotopus, Tanytarsus, Ablabesmyia</i>	2.00
06 Hilsenhoff Biotic Index	2.51	26 Sum of Abundances: <i>Acroneuria, Maccaffertium, Stenonema</i>	13.99
07 Relative Abundance - Chironomidae	0.04	28 EP Generic Richness/14	0.50
08 Relative Generic Richness Diptera	0.41	30 Presence of Class A Indicator Taxa/7	0.43
09 <i>Hydropsyche</i> Abundance	1.00		
11 <i>Cheumatopsyche</i> Abundance	0.67		
12 EPT Generic Richness/ Diptera Generic Richness	1.07		
13 Relative Abundance - Oligochaeta	0.00		
15 Perlidae Mean Abundance (Family Functional Group)	0.00		
16 Tanypodinae Mean Abundance (Family Functional Group)	4.00		
17 Chironomini Abundance (Family Functional Group)	1.33		

Five Most Dominant Taxa

Rank	Taxon Name	Percent
1	<i>Leptophlebiidae</i>	40.19
2	<i>Paraleptophlebia</i>	29.77
3	<i>Lepidostoma</i>	6.90
4	<i>Plectrocnemia</i>	6.73
5	<i>Maccaffertium</i>	5.68



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Sample Collection and Processing Information

Sampling Organization: BIOMONITORING UNIT Taxonomist: MICHAEL WINNELL

Waterbody Information - Deployment

Temperature: 20.3 deg C
Dissolved Oxygen: 9.5 mg/l
Dissolved Oxygen Saturation: 103.4 %
Specific Conductance: 27.2 uS/cm
Velocity:
pH: 5.99
Wetted Width: 4.7 m
Bankfull Width: 6.5 m
Depth: 28 cm

Waterbody Information - Retrieval

Temperature: 15.7 deg C
Dissolved Oxygen: 10.57 mg/l
Dissolved Oxygen Saturation: 105 %
Specific Conductance: 27.9 uS/cm
Velocity:
pH: 6.48
Wetted Width: 6 m
Bankfull Width: 6.5 m
Depth: 25 cm

Water Chemistry

Summary of Habitat Characteristics

<u>Landuse Name</u>	<u>Canopy Cover</u>	<u>Terrain</u>	
Swamp Conifer	Partly Open	Rolling	
Upland Conifer			
Upland Hardwood			
<u>Potential Stressor</u>	<u>Location</u>	<u>Substrate</u>	
	Minimally Disturbed	Boulder	60 %
		Gravel	10 %
		Rubble/Cobble	30 %

Landcover Summary - 2004 Data

Sample Comments

7/25 and 8/21: Flow visible.



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Log Number: 2690

Waterbody: Creamer Brook - Station 1115
Subsample Factor: X1

Town: T19 Ed Bpp
Calculated: 1/31/2019

Taxon	Maine Taxonomic Code	Count		Hilsenhoff Biotic Index	Functional Feeding Group	Relative Abundance %	
		(Mean of Samplers)				Actual	Adjusted
		Actual	Adjusted				
<i>Paracapnia</i>	09020203018	0.33	0.33	1	SH	0.1	0.1
<i>Boyeria</i>	09020301004		0.33	2	PR		0.1
<i>Boyeria vinosa</i>	09020301004012	0.33			--	0.1	
<i>Neurocordulia</i>	09020305026	0.33	0.33	2	PR	0.1	0.1
<i>Plautidius</i>	09020401012	1.00	1.00		CG	0.4	0.4
Heptageniidae	09020402	0.33			--	0.1	
<i>Leucrocota</i>	09020402011	0.33	0.34	1	SC	0.1	0.1
<i>Maccaffertium</i>	09020402015	4.33	13.99	4	SC	1.8	5.7
<i>Maccaffertium luteum</i>	09020402015049	9.33			--	3.8	
Leptophlebiidae	09020406	99.00	99.00		--	40.2	40.2
<i>Paraleptophlebia</i>	09020406026	73.33	73.33	1	CG	29.8	29.8
<i>Eurylophella</i>	09020410036	2.67	2.67	3	CG	1.1	1.1
Polycentropodidae	09020603	1.00			--	0.4	
<i>Cernotina</i>	09020603006	1.33	1.41		PR	0.5	0.6
<i>Plectrocnemia</i>	09020603012	15.67	16.59	6	PR	6.4	6.7
<i>Cheumatopsyche</i>	09020604015	0.67	0.67	5	CF	0.3	0.3
<i>Hydropsyche</i>	09020604016	0.33	1.00	4	CF	0.1	0.4
<i>Hydropsyche morosa</i>	09020604016030	0.33			--	0.1	
<i>Hydropsyche sparna</i>	09020604016032	0.33			--	0.1	
<i>Rhyacophila</i>	09020605019		0.33	2	PR		0.1
<i>Rhyacophila minora</i>	09020605019063	0.33			PR	0.1	
<i>Hydroptila</i>	09020607026	3.00	3.00	6	P	1.2	1.2
<i>Lepidostoma</i>	09020611064	17.00	17.00	1	SH	6.9	6.9
<i>Psilotreta</i>	09020614068		0.33	0	SC		0.1
<i>Psilotreta labida</i>	09020614068133	0.33			--	0.1	
<i>Oecetis</i>	09020618078	2.00	3.67	8	PR	0.8	1.5
<i>Oecetis persimilis</i>	09020618078157	1.67			--	0.7	
Chironomidae	09021011				--		
<i>Labrundinia</i>	09021011008		1.00	7	PR		0.4
<i>Labrundinia pilosella</i>	09021011008022	1.00			--	0.4	
<i>Meropelopia</i>	09021011010	1.33	1.33		--	0.5	0.5
<i>Trissopelopia</i>	09021011021		1.00		PR		0.4
<i>Trissopelopia ogemawi</i>	09021011021042	1.00			--	0.4	
<i>Zavrelimyia</i>	09021011022		0.67	8	PR		0.3
<i>Zavrelimyia thryptica group</i>	09021011022045	0.67			PR	0.3	
<i>Cricotopus</i>	09021011037		0.33	7	SH		0.1
<i>Cricotopus bicinctus</i>	09021011037057	0.33			--	0.1	



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		Actual	Adjusted			Actual	Adjusted
<i>Orthocladius</i>	09021011050		0.33	6	CG		0.1
<i>Orthocladius annectens</i>	09021011050092	0.33			--	0.1	
<i>Parametriocnemus</i>	09021011053	0.33	0.33	5	CG	0.1	0.1
<i>Rheocricotopus</i>	09021011057		0.33	6	CG		0.1
<i>Rheocricotopus robacki</i>	09021011057105	0.33			--	0.1	
<i>Rheotanytarsus</i>	09021011072		0.33	6	CF		0.1
<i>Rheotanytarsus exiguus group</i>	09021011072127	0.33			CF	0.1	
<i>Stempellinella</i>	09021011074		0.67	2	--		0.3
<i>Stempellinella leptocelloides</i>	09021011074001	0.67			--	0.3	
<i>Tanytarsus</i>	09021011076	0.67	1.00	6	CF	0.3	0.4
<i>Tanytarsus buckleyi</i>	09021011076139	0.33			CF	0.1	
<i>Dicrotendipes</i>	09021011085	0.33	0.33	8	CG	0.1	0.1
<i>Microtendipes</i>	09021011094		0.67	6	CF		0.3
<i>Microtendipes rydalensis group</i>	09021011094168	0.67			--	0.3	
<i>Polypedilum</i>	09021011102		0.33	6	SH		0.1
<i>Polypedilum aviceps</i>	09021011102181	0.33			--	0.1	
<i>Atherix</i>	09021015055	0.33	0.33	2	PR	0.1	0.1
<i>Dubiraphia</i>	09021113064		0.33	6	--		0.1
<i>Dubiraphia minima</i>	09021113064036	0.33			--	0.1	
<i>Promoresia</i>	09021113069		0.67		--		0.3
<i>Promoresia tardella</i>	09021113069052	0.67			--	0.3	
<i>Stenelmis</i>	09021113070		0.67	5	SC		0.3
<i>Stenelmis crenata</i>	09021113070055	0.67			--	0.3	
<i>Amnicola</i>	10010104013		0.33		SC		0.1
<i>Amnicola limosus</i>	10010104013018	0.33			--	0.1	