



**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: 2589	Type of Sample: ROCK BAG	Date Deployed: 7/27/2017
Subsample Factor: X1	Replicates: 3	Date Retrieved: 8/28/2017

Classification Attainment

Statutory Class: AA	Final Determination: A	Date: 3/16/2018
Model Result with $P \geq 0.6$: A	Reason for Determination: Model	
Date Last Calculated: 3/15/2018	Comments:	

Model Probabilities

<u>First Stage Model</u>		<u>C or Better Model</u>	
Class A	0.92	Class A, B, or C	1.00
Class B	0.08	Non-Attainment	0.00
		<u>A Model</u>	
<u>B or Better Model</u>		Class A	1.00
Class A or B	1.00	Class B or C or Non-Attainment	0.00
Class C or Non-Attainment	0.00		

Model Variables

01 Total Mean Abundance	206.67	18 Relative Abundance Ephemeroptera	0.28
02 Generic Richness	40.00	19 EPT Generic Richness	20.00
03 Plecoptera Mean Abundance	1.67	21 Sum of Abundances: <i>Dicrotendipes</i> , <i>Micropsectra</i> , <i>Parachironomus</i> , <i>Helobdella</i>	0.34
04 Ephemeroptera Mean Abundance	58.00	23 Relative Generic Richness- Plecoptera	0.05
05 Shannon-Wiener Generic Diversity	2.89	25 Sum of Abundances: <i>Cheumatopsyche</i> , <i>Cricotopus</i> , <i>Tanytarsus</i> , <i>Ablabesmyia</i>	1.02
06 Hilsenhoff Biotic Index	2.38	26 Sum of Abundances: <i>Acroneuria</i> , <i>Maccaffertium</i> , <i>Stenonema</i>	8.64
07 Relative Abundance - Chironomidae	0.07	28 EP Generic Richness/14	0.64
08 Relative Generic Richness Diptera	0.30	30 Presence of Class A Indicator Taxa/7	0.57
09 <i>Hydropsyche</i> Abundance	0.00		
11 <i>Cheumatopsyche</i> Abundance	0.00		
12 EPT Generic Richness/ Diptera Generic Richness	1.67		
13 Relative Abundance - Oligochaeta	0.00		
15 Perlidae Mean Abundance (Family Functional Group)	0.00		
16 Tanypodinae Mean Abundance (Family Functional Group)	1.02		
17 Chironomini Abundance (Family Functional Group)	5.12		

Five Most Dominant Taxa

Rank	Taxon Name	Percent
1	<i>Lepidostoma</i>	43.87
2	<i>Paraleptophlebia</i>	19.69
3	<i>Plectrocnemia</i>	12.23
4	<i>Maccaffertium</i>	4.18
5	<i>Rheocricotopus</i>	2.48
6	<i>Microtendipes</i>	2.48



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Date Deployed: 7/27/2017
Date Retrieved: 8/28/2017

Sample Collection and Processing Information

Sampling Organization: BIOMONITORING UNIT

Taxonomist: MICHAEL WINNELL

Waterbody Information - Deployment

Temperature: 15.2 deg C
Dissolved Oxygen: 10.68 mg/l
Dissolved Oxygen Saturation: 105.8 %
Specific Conductance: 30 uS/cm
Velocity:
pH: 6.64
Wetted Width: 3.4 m
Bankfull Width: 6.3 m
Depth: 34 cm

Waterbody Information - Retrieval

Temperature: 13.2 deg C
Dissolved Oxygen: 6.23 mg/l
Dissolved Oxygen Saturation: 58.3 %
Specific Conductance: 40.3 uS/cm
Velocity:
pH: 5.7
Wetted Width: 3 m
Bankfull Width: 6.3 m
Depth: 30 cm

Water Chemistry

Summary of Habitat Characteristics

<u>Landuse Name</u>	<u>Canopy Cover</u>	<u>Terrain</u>
Swamp Hardwood	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

FLOW VISIBLE AT DEPLOYMENT. SALAMANDER OBSERVED.
FLOW VISIBLE AT RETRIEVAL.



**Maine Department of Environmental Protection
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Aquatic Life Taxonomic Inventory Report**

Station Number: S-1115 Waterbody: Creamer Brook - Station 1115 Town: T19 Ed Bpp
Log Number: 2589 Subsample Factor: X1 Replicates: 3 Calculated: 3/15/2018

Taxon	Maine Taxonomic Code	Count (Mean of Samplers)		Hilsenhoff Biotic Index	Functional Feeding Group	Relative Abundance %	
		Actual	Adjusted			Actual	Adjusted
<i>Hydra</i>	02010101001	1.33	1.33		PR	0.6	0.6
<i>Paracapnia</i>	09020203018	0.33	0.33	1	SH	0.2	0.2
<i>Leuctra</i>	09020204020	1.33	1.33	0	SH	0.6	0.6
<i>Boyeria</i>	09020301004		1.00	2	PR		0.5
<i>Boyeria vinosa</i>	09020301004012	1.00			--	0.5	
Corduliidae	09020305	0.67	0.67		--	0.3	0.3
Heptageniidae	09020402	0.33			--	0.2	
<i>Leucrocuta</i>	09020402011	0.33	0.35	1	SC	0.2	0.2
<i>Stenacron</i>	09020402014	0.33	0.35	7	SC	0.2	0.2
<i>Maccaffertium</i>	09020402015	6.67	8.64	4	SC	3.2	4.2
<i>Maccaffertium luteum</i>	09020402015049	1.67			--	0.8	
Leptophlebiidae	09020406	17.33			--	8.4	
<i>Habrophlebia</i>	09020406023		3.30		--		1.6
<i>Habrophlebia vibrans</i>	09020406023072	2.00			--	1.0	
<i>Paraleptophlebia</i>	09020406026	24.67	40.70	1	CG	11.9	19.7
Ephemerellidae	09020410	0.33	0.33		--	0.2	0.2
<i>Eurylophella</i>	09020410036	4.33	4.33	3	CG	2.1	2.1
Polycentropodidae	09020603	1.00			--	0.5	
<i>Nyctiophylax</i>	09020603009		0.35	5	PR		0.2
<i>Nyctiophylax moestus</i>	09020603009013	0.33			--	0.2	
<i>Polycentropus</i>	09020603010	1.33	1.38	6	PR	0.6	0.7
<i>Plectrocnemia</i>	09020603012	24.33	25.27	6	PR	11.8	12.2
Hydropsychidae	09020604	0.33	0.33		--	0.2	0.2
<i>Hydroptila</i>	09020607026	2.00	2.00	6	P	1.0	1.0
<i>Oxyethira</i>	09020607028	0.33	0.33	3	P	0.2	0.2
<i>Ptilostomis</i>	09020608041	0.67	0.67	5	SH	0.3	0.3
<i>Brachycentrus</i>	09020609043	0.33	0.33	0	CF	0.2	0.2
Limnephilidae	09020610				--		
<i>Lepidostoma</i>	09020611064	90.67	90.67	1	SH	43.9	43.9
<i>Psilotreta</i>	09020614068		0.67	0	SC		0.3
<i>Psilotreta frontalis</i>	09020614068134	0.67			--	0.3	
<i>Oecetis</i>	09020618078	0.33	0.33	8	PR	0.2	0.2
<i>Nigronia</i>	09020701003		0.33	0	PR		0.2
<i>Nigronia serricornis</i>	09020701003003	0.33			--	0.2	
Chironomidae	09021011	0.33			--	0.2	
<i>Ablabesmyia</i>	09021011001		0.34	8	PR		0.2
<i>Ablabesmyia mallochii</i>	09021011001004	0.33			--	0.2	



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		Actual	Adjusted				
<i>Conchapelopia</i>	09021011004	0.33	0.34	6	PR	0.2	0.2
<i>Meropelopia</i>	09021011010	0.33	0.34		--	0.2	0.2
<i>Cricotopus</i>	09021011037		0.34	7	SH		0.2
<i>Cricotopus bicinctus</i>	09021011037057	0.33			--	0.2	
<i>Orthocladus</i>	09021011050		1.02	6	CG		0.5
<i>Orthocladus annectens</i>	09021011050092	1.00			--	0.5	
<i>Psectrocladius</i>	09021011056		0.34	8	CG		0.2
<i>Psectrocladius simulans</i>	09021011056110	0.33			--	0.2	
<i>Rheocricotopus</i>	09021011057		5.12	6	CG		2.5
<i>Rheocricotopus pauciseta</i>	09021011057111	5.00			--	2.4	
<i>Micropsectra</i>	09021011070	0.33	0.34	7	CG	0.2	0.2
<i>Stempellinella</i>	09021011074		0.34	2	--		0.2
<i>Stempellinella fimbriata</i>	09021011074002	0.33			--	0.2	
<i>Tanytarsus</i>	09021011076	0.33	0.34	6	CF	0.2	0.2
<i>Microtendipes</i>	09021011094	0.67	5.12	6	CF	0.3	2.5
<i>Microtendipes pedellus group</i>	09021011094166	4.00			--	1.9	
<i>Microtendipes rydalensis group</i>	09021011094168	0.33			--	0.2	
<i>Atherix</i>	09021015055	0.33	0.33	2	PR	0.2	0.2
<i>Dubiraphia</i>	09021113064		3.33	6	--		1.6
<i>Dubiraphia quadrinotata</i>	09021113064037	3.33			--	1.6	
<i>Optioservus</i>	09021113067	0.33	0.33	3	SC	0.2	0.2
<i>Promoresia</i>	09021113069		3.00		--		1.5
<i>Promoresia tardella</i>	09021113069052	3.00			--	1.5	
<i>Sperchonopsis</i>	09030107002	0.33	0.33		--	0.2	0.2