



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

**Station Information**

<b>Station Number:</b> S-1182	River Basin: Kennebec
Waterbody: Mount Blue Stream - Station 1182	HUC8 Name: Lower Kennebec
Town: Avon	Latitude: 44 47 34.19 N
Directions: UPSTREAM OF ROUTE 4	Longitude: 70 16 20.71 W
	Stream Order: 2

**Sample Information**

<b>Log Number:</b> 2814	Type of Sample: ROCK BAG	Date Deployed: 7/6/2020
Subsample Factor: X1	Replicates: 3	Date Retrieved: 8/6/2020

**Classification Attainment**

<b>Statutory Class:</b> B	<b>Final Determination:</b> A	Date: 2/17/2021
Model Result with $P \geq 0.6$ : A	<b>Reason for Determination:</b> Model	
Date Last Calculated: 2/15/2021	Comments:	

**Model Probabilities**

<u>First Stage Model</u>		<u>C or Better Model</u>	
Class A	0.93	Class A, B, or C	1.00
Class B	0.07	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	315.00	18 Relative Abundance Ephemeroptera	0.37
02 Generic Richness	66.00	19 EPT Generic Richness	37.00
03 Plecoptera Mean Abundance	17.67	21 Sum of Abundances: <i>Dicrotendipes</i> , <i>Micropsectra</i> , <i>Parachironomus</i> , <i>Helobdella</i>	2.33
04 Ephemeroptera Mean Abundance	116.67	23 Relative Generic Richness- Plecoptera	0.11
05 Shannon-Wiener Generic Diversity	4.50	25 Sum of Abundances: <i>Cheumatopsyche</i> , <i>Cricotopus</i> , <i>Tanytarsus</i> , <i>Ablabesmyia</i>	8.33
06 Hilsenhoff Biotic Index	3.73	26 Sum of Abundances: <i>Acroneuria</i> , <i>Maccaffertium</i> , <i>Stenonema</i>	20.00
07 Relative Abundance - Chironomidae	0.25	28 EP Generic Richness/14	1.64
08 Relative Generic Richness Diptera	0.30	30 Presence of Class A Indicator Taxa/7	1.00
09 <i>Hydropsyche</i> Abundance	48.33		
11 <i>Cheumatopsyche</i> Abundance	6.00		
12 EPT Generic Richness/ Diptera Generic Richness	1.85		
13 Relative Abundance - Oligochaeta	0.00		
15 Perlidae Mean Abundance (Family Functional Group)	14.00		
16 Tanypodinae Mean Abundance (Family Functional Group)	9.67		
17 Chironomini Abundance (Family Functional Group)	23.33		

**Five Most Dominant Taxa**

Rank	Taxon Name	Percent
1	<i>Baetis</i>	18.31
2	<i>Hydropsyche</i>	15.34
3	<i>Rheotanytarsus</i>	8.68
4	<i>Polypedilum</i>	7.20
5	<i>Maccaffertium</i>	5.61



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**Sample Collection and Processing Information**

Sampling Organization: BIOMONITORING UNIT      Taxonomist: MICHAEL COLE

**Waterbody Information - Deployment**

Temperature: 19.9 deg C  
Dissolved Oxygen: 9.39 mg/l  
Dissolved Oxygen Saturation: 104.7 %  
Specific Conductance: 30.7 uS/cm  
Velocity: 30.5 cm/s  
pH: 7.19  
Wetted Width:  
Bankfull Width:  
Depth: 38 cm

**Waterbody Information - Retrieval**

Temperature: 18.6 deg C  
Dissolved Oxygen: 9.74 mg/l  
Dissolved Oxygen Saturation: 106.2 %  
Specific Conductance: 32.4 uS/cm  
Velocity: 15.2 cm/s  
pH: 7.15  
Wetted Width: 6.8 m  
Bankfull Width: 9.3 m  
Depth: 38 cm

**Water Chemistry**

**Summary of Habitat Characteristics**

<u>Landuse Name</u>	<u>Canopy Cover</u>	<u>Terrain</u>	
Upland Hardwood	Open	Hilly	
<u>Potential Stressor</u>	<u>Location</u>	<u>Substrate</u>	
Logging	Minimally Disturbed	Boulder	50 %
		Gravel	20 %
		Rubble/Cobble	30 %

**Landcover Summary - 2004 Data**

**Sample Comments**



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**Log Number: 2814**      Subsample Factor: X1      Replicates: 3      Calculated: 2/15/2021

Taxon	Maine Taxonomic Code	Count (Mean of Samplers)		Hilsenhoff Biotic Index	Functional Feeding Group	Relative Abundance %	
		Actual	Adjusted			Actual	Adjusted
Nematomorpha	06	0.33	0.33		--	0.1	0.1
<i>Leuctra</i>	09020204020	1.33	1.33	0	SH	0.4	0.4
<i>Pteronarcys</i>	09020205023		0.33	0	SH		0.1
<i>Pteronarcys biloba</i>	09020205023061	0.33			--	0.1	
Perlodidae	09020207	1.67	1.67		--	0.5	0.5
Chloroperlidae	09020208	0.33	0.33		--	0.1	0.1
<i>Acroneuria</i>	09020209042	1.00	2.33	0	PR	0.3	0.7
<i>Acroneuria abnormis</i>	09020209042121	1.33		0	PR	0.4	
<i>Paragnetina</i>	09020209049	6.33	6.33	1	PR	2.0	2.0
<i>Aagnetina</i>	09020209050		5.33	2	PR		1.7
<i>Aagnetina capitata</i>	09020209050152	5.33		2	PR	1.7	
<i>Boyeria</i>	09020301004		0.33	2	PR		0.1
<i>Boyeria grafiana</i>	09020301004011	0.33			--	0.1	
Corduliidae	09020305	0.33	0.33		--	0.1	0.1
<i>Baetis</i>	09020401001	1.67	57.67	4	CG	0.5	18.3
<i>Baetis flavistriga</i>	09020401001004	17.00			--	5.4	
<i>Baetis intercalaris</i>	09020401001008	14.00			--	4.4	
<i>Baetis pluto</i>	09020401001009	25.00			--	7.9	
<i>Acerpenna</i>	09020401007	0.67	2.00	5	CG	0.2	0.6
<i>Acerpenna macdunnoughi</i>	09020401007001	1.33			--	0.4	
<i>Procloeon</i>	09020401010	0.33	0.33		CG	0.1	0.1
<i>Plauditus</i>	09020401012	3.33	3.33		CG	1.1	1.1
<i>Dipheter</i>	09020401013		2.67		--		0.8
<i>Dipheter hageni</i>	09020401013001	2.67			--	0.8	
<i>Epeorus</i>	09020402009	3.33	3.33	0	SC	1.1	1.1
<i>Heptagenia</i>	09020402010	1.33	1.33	2	SC	0.4	0.4
<i>Leucrocuta</i>	09020402011	8.67	8.67	1	SC	2.8	2.8
<i>Maccaffertium</i>	09020402015	15.00	17.67	4	SC	4.8	5.6
<i>Maccaffertium vicarium</i>	09020402015055	2.67			--	0.8	
Leptophlebiidae	09020406	1.33	1.33		--	0.4	0.4
<i>Neoleptophlebia</i>	09020406027	0.67	0.67		--	0.2	0.2
<i>Ephemerella</i>	09020410035	7.00	7.00	1	CG	2.2	2.2
<i>Eurylophella</i>	09020410036		0.67	3	CG		0.2
<i>Eurylophella funeralis</i>	09020410036115	0.67			SH	0.2	
<i>Serratella</i>	09020410037		7.67	2	CG		2.4
<i>Serratella deficiens (Teloganopsis deficiens)</i>	09020410037121	1.00			--	0.3	
<i>Serratella serratoides</i>	09020410037124	6.67			--	2.1	



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Taxon	Maine Taxonomic Code	Count (Mean of Samplers)		Hilsenhoff Biotic Index	Functional Feeding Group	Relative Abundance %	
		Actual	Adjusted			Actual	Adjusted
<i>Tricorythodes</i>	09020411038	0.33	0.33	4	CG	0.1	0.1
<i>Caenis</i>	09020412040	2.00	2.00	7	CG	0.6	0.6
<i>Neureclipsis</i>	09020603008	3.00	3.00	7	CF	1.0	1.0
<i>Polycentropus</i>	09020603010	1.33	1.33	6	PR	0.4	0.4
<i>Diplectrona</i>	09020604014		1.00	0	CF		0.3
<i>Diplectrona modesta</i>	09020604014025	1.00			--	0.3	
<i>Cheumatopsyche</i>	09020604015	6.00	6.00	5	CF	1.9	1.9
<i>Hydropsyche</i>	09020604016	25.00	48.33	4	CF	7.9	15.3
<i>Hydropsyche morosa</i>	09020604016030	0.33			--	0.1	
<i>Hydropsyche slossonae</i>	09020604016031	1.67			--	0.5	
<i>Hydropsyche sparna</i>	09020604016032	21.33			--	6.8	
<i>Rhyacophila</i>	09020605019	1.67	6.00	2	PR	0.5	1.9
<i>Rhyacophila acutiloba</i>	09020605019056	1.67			PR	0.5	
<i>Rhyacophila fuscula</i>	09020605019060	2.00			PR	0.6	
<i>Rhyacophila minora</i>	09020605019063	0.67			PR	0.2	
<i>Glossosoma</i>	09020606020	2.33	2.33	0	SC	0.7	0.7
<i>Hydroptila</i>	09020607026	0.33	0.33	6	P	0.1	0.1
<i>Brachycentrus</i>	09020609043		14.00	0	CF		4.4
<i>Brachycentrus appalachia</i>	09020609043096	14.00			--	4.4	
<i>Pycnopsyche</i>	09020610049	0.67	0.67	4	SH	0.2	0.2
<i>Lepidostoma</i>	09020611064	4.00	4.00	1	SH	1.3	1.3
<i>Psilotreta</i>	09020614068	0.33	0.33	0	SC	0.1	0.1
<i>Helicopsyche</i>	09020616070		0.67	3	SC		0.2
<i>Helicopsyche borealis</i>	09020616070137	0.67			--	0.2	
<i>Apatania</i>	09020619061	0.33	0.33		SC	0.1	0.1
<i>Nigronia</i>	09020701003		1.67	0	PR		0.5
<i>Nigronia serricornis</i>	09020701003003	1.67			--	0.5	
Ceratopogonidae	09021010	0.33	0.33		--	0.1	0.1
Chironomidae	09021011				--		
<i>Nilotanytus</i>	09021011012		0.67	6	PR		0.2
<i>Nilotanytus fimbriatus</i>	09021011012027	0.67			--	0.2	
<i>Thienemannimyia</i>	09021011020		9.00	3	PR		2.9
<i>Thienemannimyia group</i>	09021011020041	9.00			--	2.9	
<i>Pagastia</i>	09021011025	1.00	1.00	1	--	0.3	0.3
<i>Sympothastia</i>	09021011029	0.33	0.33	2	CG	0.1	0.1
<i>Corynoneura</i>	09021011036	5.00	5.00	7	CG	1.6	1.6
<i>Cricotopus</i>	09021011037	0.33	1.00	7	SH	0.1	0.3
<i>Cricotopus bicinctus</i>	09021011037057	0.67			--	0.2	



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<i>Nanocladius</i>	09021011049	0.33	0.33	3	CG	0.1	0.1
<i>Orthocladius</i>	09021011050	0.67	1.67	6	CG	0.2	0.5
<i>Orthocladius lignicola</i>	09021011050100	1.00			--	0.3	
<i>Parametriocnemus</i>	09021011053	2.00	2.00	5	CG	0.6	0.6
<i>Thienemanniella</i>	09021011062	0.33	0.33	6	CG	0.1	0.1
<i>Tvetenia</i>	09021011065		3.00	5	CG		1.0
<i>Tvetenia vitracies</i>	09021011065113	1.67			--	0.5	
<i>Tvetenia paucunca</i>	09021011065114	1.33			--	0.4	
<i>Micropsectra</i>	09021011070	2.33	2.33	7	CG	0.7	0.7
<i>Rheotanytarsus</i>	09021011072		27.33	6	CF		8.7
<i>Rheotanytarsus exiguus group</i>	09021011072127	18.33			CF	5.8	
<i>Rheotanytarsus pellucidus</i>	09021011072128	9.00			CF	2.9	
<i>Tanytarsus</i>	09021011076	1.33	1.33	6	CF	0.4	0.4
<i>Microtendipes</i>	09021011094		0.67	6	CF		0.2
<i>Microtendipes pedellus group</i>	09021011094166	0.67			--	0.2	
<i>Polypedilum</i>	09021011102		22.67	6	SH		7.2
<i>Polypedilum aviceps</i>	09021011102181	17.67			--	5.6	
<i>Polypedilum flavum</i>	09021011102182	3.67			--	1.2	
<i>Polypedilum tritum</i>	09021011102191	1.33			--	0.4	
<i>Simulium</i>	09021012047	1.67	1.67	4	CF	0.5	0.5
<i>Simulium venustum/verecundum complex</i>	09021012047072				CF		
<i>Hemerodromia</i>	09021016057	0.33	0.33	3	PR	0.1	0.1
<i>Neoplasta</i>	09021016064	1.00	1.00		PR	0.3	0.3
<i>Dubiraphia</i>	09021113064	0.33	0.33	6	--	0.1	0.1
<i>Optioservus</i>	09021113067		6.00	3	SC		1.9
<i>Optioservus trivittatus</i>	09021113067048	0.33			--	0.1	
<i>Optioservus tardella</i>	09021113067052	5.67			--	1.8	
<i>Oulimnius</i>	09021113068	0.33	0.67		--	0.1	0.2
<i>Oulimnius latiusculus</i>	09021113068049	0.33			--	0.1	
<i>Promoesia</i>	09021113069	0.33	0.33		--	0.1	0.1
<i>Stenelmis</i>	09021113070		0.33	5	SC		0.1
<i>Stenelmis crenata</i>	09021113070055	0.33			--	0.1	