



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

Station Information

Station Number: S-1186	River Basin:
Waterbody: Androscoggin River - Station 1186	HUC8 Name:
Town: Rumford	Latitude:
Directions: LOCATED APPROXIMATELY 200 FT DS OF MIDDLE IMPOUNMENT - IN BYPASS	Longitude:
	Stream Order: 6

Sample Information

Log Number: 2853	Type of Sample: ROCK BAG	Date Deployed: 7/30/2020
Subsample Factor: X1	Replicates: 3	Date Retrieved: 8/27/2020

Classification Attainment

Statutory Class: C	Final Determination: A	Date: 11/23/2020
Model Result with $P \geq 0.6$: A	Reason for Determination: Model	
Date Last Calculated: 11/23/2020	Comments:	

Model Probabilities

<u>First Stage Model</u>				<u>C or Better Model</u>	
Class A	0.79	Class C	0.00	Class A, B, or C	1.00
Class B	0.21	NA	0.00	Non-Attainment	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	633.33	18 Relative Abundance Ephemeroptera	0.38
02 Generic Richness	58.00	19 EPT Generic Richness	27.00
03 Plecoptera Mean Abundance	7.33	21 Sum of Abundances: <i>Dicrotendipes</i> , <i>Micropsectra</i> , <i>Parachironomus</i> , <i>Helobdella</i>	0.33
04 Ephemeroptera Mean Abundance	243.00	23 Relative Generic Richness- Plecoptera	0.07
05 Shannon-Wiener Generic Diversity	3.93	25 Sum of Abundances: <i>Cheumatopsyche</i> , <i>Cricotopus</i> , <i>Tanytarsus</i> , <i>Ablabesmyia</i>	30.05
06 Hilsenhoff Biotic Index	3.79	26 Sum of Abundances: <i>Acroneuria</i> , <i>Maccaffertium</i> , <i>Stenonema</i>	99.00
07 Relative Abundance - Chironomidae	0.11	28 EP Generic Richness/14	1.14
08 Relative Generic Richness Diptera	0.38	30 Presence of Class A Indicator Taxa/7	0.57
09 <i>Hydropsyche</i> Abundance	96.00		
11 <i>Cheumatopsyche</i> Abundance	20.00		
12 EPT Generic Richness/ Diptera Generic Richness	1.23		
13 Relative Abundance - Oligochaeta	0.00		
15 Perlidae Mean Abundance (Family Functional Group)	4.67		
16 Tanypodinae Mean Abundance (Family Functional Group)	12.39		
17 Chironomini Abundance (Family Functional Group)	16.41		

Five Most Dominant Taxa

Rank	Taxon Name	Percent
1	<i>Chimarra</i>	20.37
2	<i>Maccaffertium</i>	15.21
3	<i>Hydropsyche</i>	15.16
4	<i>Acerpenna</i>	13.26
5	<i>Paraleptophlebia</i>	4.00



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Town: Rumford

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Waterbody: Androscoggin River - Station 1186

Date Retrieved: 8/27/2020

Sample Collection and Processing Information

Sampling Organization: NORMANDEAU ASSOCIATES

Taxonomist: NORMANDEAU ASSOCIATES

Waterbody Information - Deployment

Temperature: 25.3 deg C
 Dissolved Oxygen: 7.95 mg/l
 Dissolved Oxygen Saturation: 96.8 %
 Specific Conductance: 38 uS/cm
 Velocity: 11.28 cm/s
 pH: 6.6
 Wetted Width: 28.8 m
 Bankfull Width: 61.9 m
 Depth: 99 cm

Waterbody Information - Retrieval

Temperature: 21.3 deg C
 Dissolved Oxygen: 9.05 mg/l
 Dissolved Oxygen Saturation: 102.1 %
 Specific Conductance: 37 uS/cm
 Velocity: 11.13 cm/s
 pH: 6.7
 Wetted Width: 29.1 m
 Bankfull Width: 60.9 m
 Depth: 97 cm

Water Chemistry

Summary of Habitat Characteristics

<u>Landuse Name</u>	<u>Canopy Cover</u>	<u>Terrain</u>	
Upland Hardwood	Open	Hilly	
Urban			
<u>Potential Stressor</u>	<u>Location</u>	<u>Substrate</u>	
Regulated Flows	Below Dam	Bedrock	0 %
Thermal	Below Road Crossing	Boulder	95 %
Urban Runoff		Clay	0 %
		Detritus	0 %
		Gravel	0 %
		Muck	0 %
		Rubble/Cobble	5 %
		Sand	0 %
		Silt	0 %

Landcover Summary - 2004 Data

Sample Comments



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Aquatic Life Taxonomic Inventory Report

Station Number: S-1186

Waterbody: Androscoggin River - Station 1186

Town: Rumford

Log Number: 2853

Subsample Factor: X1

Replicates: 3

Calculated: 11/23/2020

Taxon	Maine Taxonomic Code	Count (Mean of Samplers)		Hilsenhoff Biotic Index	Functional Feeding Group	Relative Abundance %	
		Actual	Adjusted			Actual	Adjusted
DugesIIDae	03010102	17.67	17.67		--	2.8	2.8
<i>Nais</i>	08020202009		0.33		CG		0.1
<i>Nais communis</i>	08020202009005	0.33			--	0.1	
<i>Isoperla</i>	09020207026	2.67	2.67	2	PR	0.4	0.4
<i>Acroncuria</i>	09020209042	2.67	2.67	0	PR	0.4	0.4
<i>Paragnetina</i>	09020209049		1.00	1	PR		0.2
<i>Paragnetina immarginata</i>	09020209049149	0.67			--	0.1	
<i>Paragnetina media</i>	09020209049151	0.33			--	0.1	
<i>Agnatina</i>	09020209050	0.67	1.00	2	PR	0.1	0.2
<i>Agnatina capitata</i>	09020209050152	0.33		2	PR	0.1	
<i>Hagenius</i>	09020302008		0.67	1	PR		0.1
<i>Hagenius brevistylus</i>	09020302008015	0.67			PR	0.1	
Libellulidae	09020306	0.33	0.33		--	0.1	0.1
<i>Baetis</i>	09020401001	3.00	3.00	4	CG	0.5	0.5
<i>Acerpenna</i>	09020401007		84.00	5	CG		13.3
<i>Acerpenna pygmaea</i>	09020401007011	84.00			--	13.3	
<i>Plauditus</i>	09020401012	4.33	4.33		CG	0.7	0.7
<i>Leucrocuta</i>	09020402011	14.67	14.67	1	SC	2.3	2.3
<i>Stenacron</i>	09020402014	1.33	1.33	7	SC	0.2	0.2
<i>Maccaffertium</i>	09020402015		96.33	4	SC		15.2
<i>Maccaffertium modestum</i>	09020402015051	96.33			--	15.2	
<i>Isonychia</i>	09020404018	5.67	5.67	2	CF	0.9	0.9
<i>Paraleptophlebia</i>	09020406026	25.33	25.33	1	CG	4.0	4.0
<i>Ephemerella</i>	09020410035	5.67	5.67	1	CG	0.9	0.9
<i>Serratella</i>	09020410037	0.67	0.67	2	CG	0.1	0.1
<i>Tricorythodes</i>	09020411038	1.00	1.00	4	CG	0.2	0.2
<i>Caenis</i>	09020412040	1.00	1.00	7	CG	0.2	0.2
<i>Chimarra</i>	09020601003	129.00	129.00	2	CF	20.4	20.4
<i>Polycentropus</i>	09020603010	10.67	10.67	6	PR	1.7	1.7
<i>Cheumatopsyche</i>	09020604015	20.00	20.00	5	CF	3.2	3.2
<i>Hydropsyche</i>	09020604016	72.67	96.00	4	CF	11.5	15.2
<i>Hydropsyche morosa</i>	09020604016030	10.67			--	1.7	
<i>Hydropsyche phalerata</i>	09020604016047	12.67			--	2.0	
<i>Macrostemum</i>	09020604018		2.67	3	CF		0.4
<i>Macrostemum zebratum</i>	09020604018054	2.67			--	0.4	
<i>Rhyacophila</i>	09020605019	0.33	0.33	2	PR	0.1	0.1
<i>Hydroptila</i>	09020607026	0.33	0.33	6	P	0.1	0.1
<i>Mayatrichia</i>	09020607033	0.33	0.33		SC	0.1	0.1
<i>Psilotreta</i>	09020614068	0.33	0.33	0	SC	0.1	0.1
Leptoceridae	09020618	8.00			--	1.3	



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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>Ceraclea</i>	09020618072	2.00	4.82	3	CG	0.3	0.8
<i>Oecetis</i>	09020618078	3.67	8.84	8	PR	0.6	1.4
<i>Corydalus</i>	09020701002		0.33	6	PR		0.1
<i>Corydalus cornutus</i>	09020701002002	0.33			--	0.1	
Chironomidae	09021011	0.33			--	0.1	
<i>Ablabesmyia</i>	09021011001		3.01	8	PR		0.5
<i>Ablabesmyia mallochii</i>	09021011001004	3.00			--	0.5	
<i>Labrundinia</i>	09021011008	0.67	0.67	7	PR	0.1	0.1
<i>Nilotanytus</i>	09021011012		2.34	6	PR		0.4
<i>Nilotanytus fimbriatus</i>	09021011012027	2.33			--	0.4	
<i>Pentaneura</i>	09021011014		3.68	6	PR		0.6
<i>Pentaneura inconspicua</i>	09021011014028	3.67			--	0.6	
<i>Thienemannimyia</i>	09021011020		2.68	3	PR		0.4
<i>Thienemannimyia group</i>	09021011020041	2.67			--	0.4	
<i>Diamesa</i>	09021011024	1.33	1.34	5	CG	0.2	0.2
<i>Corynoneura</i>	09021011036	0.33	0.33	7	CG	0.1	0.1
<i>Cricotopus</i>	09021011037	5.33	5.36	7	SH	0.8	0.8
<i>Eukiefferiella</i>	09021011041	0.67	0.67	8	CG	0.1	0.1
<i>Orthocladius</i>	09021011050	3.33	3.35	6	CG	0.5	0.5
<i>Rheocricotopus</i>	09021011057		5.36	6	CG		0.8
<i>Rheocricotopus robacki</i>	09021011057105	5.33			--	0.8	
<i>Synorthocladius</i>	09021011061	0.33	0.33	2	CG	0.1	0.1
<i>Tvetenia</i>	09021011065		4.02	5	CG		0.6
<i>Tvetenia vitracies</i>	09021011065113	4.00			--	0.6	
<i>Rheotanytarsus</i>	09021011072	0.33	17.75	6	CF	0.1	2.8
<i>Rheotanytarsus exiguus group</i>	09021011072127	9.33			CF	1.5	
<i>Rheotanytarsus pellucidus</i>	09021011072128	8.00			CF	1.3	
<i>Tanytarsus</i>	09021011076	1.67	1.67	6	CF	0.3	0.3
<i>Dicrotendipes</i>	09021011085	0.33	0.33	8	CG	0.1	0.1
<i>Microtendipes</i>	09021011094		2.34	6	CF		0.4
<i>Microtendipes pedellus group</i>	09021011094166	2.33			--	0.4	
<i>Polypedilum</i>	09021011102		13.73	6	SH		2.2
<i>Polypedilum aviceps</i>	09021011102181	0.33			--	0.1	
<i>Polypedilum flavum</i>	09021011102182	12.67			--	2.0	
<i>Polypedilum illinoense group</i>	09021011102185	0.33			--	0.1	
<i>Polypedilum ontario</i>	09021011102194	0.33			--	0.1	
<i>Helopelopia</i>	09021011114	0.33	0.33	6	PR	0.1	0.1
<i>Simulium</i>	09021012047	8.33	8.33	4	CF	1.3	1.3
<i>Atherix</i>	09021015055		0.33	2	PR		0.1
<i>Atherix lantha</i>	09021015055089	0.33			--	0.1	



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<i>Hemerodromia</i>	09021016057	0.33	0.33	3	PR	0.1	0.1
<i>Dineutus</i>	09021104032	1.33	1.33	2	--	0.2	0.2
<i>Stenelmis</i>	09021113070		9.00	5	SC		1.4
<i>Stenelmis humerosa</i>	09021113070056	9.00			--	1.4	
<i>Sperchon</i>	09030107001	1.33	1.33		--	0.2	0.2
<i>Amnicola</i>	10010104013	0.33	0.33		SC	0.1	0.1