



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

Station Information

Station Number: S-170	River Basin: Androscoggin
Waterbody: Sabattus River - Station 170	HUC8 Name: Lower Androscoggin
Town: Lisbon	Latitude: 44 1 56.52 N
Directions: BELOW MAINE ELECTRONICS, 40 M BELOW DAM	Longitude: 70 6 11.98 W
	Stream Order: 3

Sample Information

Log Number: 2645	Type of Sample: ROCK BASKET	Date Deployed: 7/10/2018
Subsample Factor: X1	Replicates: 3	Date Retrieved: 8/7/2018

Classification Attainment

Statutory Class: B	Final Determination: C	Date: 12/3/2018
Model Result with $P \geq 0.6$: C	Reason for Determination: Model	
Date Last Calculated: 11/30/2018	Comments:	

Model Probabilities

<u>First Stage Model</u>		<u>C or Better Model</u>	
Class A	0.00	Class A, B, or C	0.87
Class B	0.02	Non-Attainment	0.13
<u>B or Better Model</u>		<u>A Model</u>	
Class A or B	0.00	Class A	0.00
Class C or Non-Attainment	1.00	Class B or C or Non-Attainment	1.00

Model Variables

01 Total Mean Abundance	163.67	18 Relative Abundance Ephemeroptera	0.09
02 Generic Richness	36.00	19 EPT Generic Richness	12.00
03 Plecoptera Mean Abundance	0.00	21 Sum of Abundances: <i>Dicrotendipes, Micropsectra, Parachironomus, Helobdella</i>	1.67
04 Ephemeroptera Mean Abundance	14.00	23 Relative Generic Richness- Plecoptera	0.00
05 Shannon-Wiener Generic Diversity	3.14	25 Sum of Abundances: <i>Cheumatopsyche, Cricotopus, Tanytarsus, Ablabesmyia</i>	76.67
06 Hilsenhoff Biotic Index	5.14	26 Sum of Abundances: <i>Acroneuria, Maccaffertium, Stenonema</i>	2.33
07 Relative Abundance - Chironomidae	0.40	28 EP Generic Richness/14	0.50
08 Relative Generic Richness Diptera	0.39	30 Presence of Class A Indicator Taxa/7	0.00
09 <i>Hydropsyche</i> Abundance	13.33		
11 <i>Cheumatopsyche</i> Abundance	63.67		
12 EPT Generic Richness/ Diptera Generic Richness	0.86		

Five Most Dominant Taxa

Rank	Taxon Name	Percent
1	<i>Cheumatopsyche</i>	38.90
2	<i>Polypedilum</i>	18.74
3	<i>Hydropsyche</i>	8.15
4	<i>Tanytarsus</i>	6.72
5	<i>Baetis</i>	5.70
6	<i>Thienemannimyia</i>	5.70



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Station Number: S-170
Log Number: 2645

Town: Lisbon
Waterbody: Sabattus River - Station 170

Date Deployed: 7/10/2018
Date Retrieved: 8/7/2018

Sample Collection and Processing Information

Sampling Organization: BIOMONITORING UNIT

Taxonomist: MICHAEL COLE

Waterbody Information - Deployment

Temperature:	25.9 deg C
Dissolved Oxygen:	9.62 mg/l
Dissolved Oxygen Saturation:	117.6 %
Specific Conductance:	219.1 uS/cm
Velocity:	39.6 cm/s
pH:	8.04
Wetted Width:	23 m
Bankfull Width:	24 m
Depth:	48 cm

Waterbody Information - Retrieval

Temperature:	27 deg C
Dissolved Oxygen:	9.45 mg/l
Dissolved Oxygen Saturation:	117.6 %
Specific Conductance:	255.5 uS/cm
Velocity:	33.5 cm/s
pH:	7.5
Wetted Width:	24 m
Bankfull Width:	24 m
Depth:	56 cm

Water Chemistry

Summary of Habitat Characteristics

<u>Landuse Name</u>	<u>Canopy Cover</u>	<u>Terrain</u>	
Upland Hardwood	Open	Rolling	
Urban			
<u>Potential Stressor</u>	<u>Location</u>	<u>Substrate</u>	
Altered Hydrology	Above Road Crossing	Bedrock	25 %
Impounded	Below Dam	Boulder	20 %
Metals	Below Urban NPS	Gravel	5 %
Urban Runoff		Rubble/Cobble	40 %
		Silt	10 %

Landcover Summary - 2004 Data

Sample Comments

1 BAG MOVED 1M, HIGHER FLOW



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

Station Number: S-170

Waterbody: Sabattus River - Station 170

Town: Lisbon

Log Number: 2645

Subsample Factor: X1

Replicates: 3

Calculated: 11/30/2018

Taxon	Maine Taxonomic Code	Count		Hilsenhoff Biotic Index	Functional Feeding Group	Relative Abundance %	
		(Mean of Samplers)				Actual	Adjusted
		Actual	Adjusted				
<i>Girardia</i>	03010102002	0.33	0.33		--	0.2	0.2
<i>Nais</i>	08020202009	0.67	0.67		CG	0.4	0.4
<i>Caecidotea</i>	09010101001	2.00	2.00	8	SH	1.2	1.2
Cambaridae	09010301	0.33	0.33		--	0.2	0.2
<i>Orconectes</i>	09010301008	0.33	0.33		CG	0.2	0.2
<i>Isotomurus</i>	09020102002	0.33	0.33		--	0.2	0.2
<i>Baetis</i>	09020401001	1.00	9.33	4	CG	0.6	5.7
<i>Baetis flavistriga</i>	09020401001004	5.00			--	3.1	
<i>Baetis intercalaris</i>	09020401001008	3.33			--	2.0	
<i>Acerpenna</i>	09020401007		0.67	5	CG		0.4
<i>Acerpenna pygmaea</i>	09020401007011	0.67			--	0.4	
<i>Proclleon</i>	09020401010	0.33	0.33		CG	0.2	0.2
Heptageniidae	09020402	0.33	0.33		--	0.2	0.2
<i>Maccaffertium</i>	09020402015	2.00	2.33	4	SC	1.2	1.4
<i>Maccaffertium modestum</i>	09020402015051	0.33			--	0.2	
<i>Isonychia</i>	09020404018	0.67	0.67	2	CF	0.4	0.4
Leptophlebiidae	09020406	0.33	0.33		--	0.2	0.2
<i>Chimarra</i>	09020601003		0.67	2	CF		0.4
<i>Chimarra obscura</i>	09020601003003	0.67			--	0.4	
Polycentropodidae	09020603	0.33	0.33		--	0.2	0.2
<i>Cernotina</i>	09020603006	0.33	0.33		PR	0.2	0.2
<i>Cheumatopsyche</i>	09020604015	63.67	63.67	5	CF	38.9	38.9
<i>Hydropsyche</i>	09020604016	1.00	13.33	4	CF	0.6	8.1
<i>Hydropsyche morosa</i>	09020604016030	3.33			--	2.0	
<i>Hydropsyche betteni</i>	09020604016037	9.00			--	5.5	
Chironomidae	09021011				--		
<i>Ablabesmyia</i>	09021011001	0.67	0.67	8	PR	0.4	0.4
<i>Thienemannimyia</i>	09021011020		9.33	3	PR		5.7
<i>Thienemannimyia group</i>	09021011020041	9.33			--	5.7	
<i>Cardiocladius</i>	09021011034			5	PR		
<i>Cricotopus</i>	09021011037	1.00	1.33	7	SH	0.6	0.8
<i>Cricotopus bicinctus</i>	09021011037057	0.33			--	0.2	
<i>Nanocladius</i>	09021011049	1.33	1.33	3	CG	0.8	0.8
<i>Orthocladius</i>	09021011050	0.67	0.67	6	CG	0.4	0.4
<i>Tvetenia</i>	09021011065		0.67	5	CG		0.4
<i>Tvetenia vitracies</i>	09021011065113	0.67			--	0.4	
<i>Paratanytarsus</i>	09021011071	0.67	0.67	6	--	0.4	0.4



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Town: Lisbon

Log Number: 2645

Subsample Factor: X1

Replicates: 3

Calculated: 11/30/2018

Taxon	Maine Taxonomic Code	Count (Mean of Samplers)		Hilsenhoff Biotic Index	Functional Feeding Group	Relative Abundance %	
		Actual	Adjusted			Actual	Adjusted
<i>Rheotanytarsus</i>	09021011072		4.00	6	CF		2.4
<i>Rheotanytarsus exiguus group</i>	09021011072127	4.00			CF	2.4	
<i>Tanytarsus</i>	09021011076	11.00	11.00	6	CF	6.7	6.7
<i>Endochironomus</i>	09021011087	1.00	1.00	10	SH	0.6	0.6
<i>Microtendipes</i>	09021011094		2.67	6	CF		1.6
<i>Microtendipes pedellus group</i>	09021011094166	2.67			--	1.6	
<i>Parachironomus</i>	09021011097	1.67	1.67	10	PR	1.0	1.0
<i>Polypedilum</i>	09021011102		30.67	6	SH		18.7
<i>Polypedilum flavum</i>	09021011102182	30.67			--	18.7	
<i>Simulium</i>	09021012047	0.33	0.33	4	CF	0.2	0.2
Ostracoda	0906	0.33	0.33			0.2	0.2
Physidae	10010202	0.33	0.33		SC	0.2	0.2
<i>Ferrissia</i>	10010204035	0.33	0.33		SC	0.2	0.2
Sphaeriidae	10020201	0.33	0.33		CF	0.2	0.2