



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

Station Information

Station Number: S-860	River Basin: Androscoggin
Waterbody: Nezinscot River - Station 860	HUC8 Name: Lower Androscoggin
Town: Turner	Latitude: 44 15 22.05 N
Directions: ABOUT 100 M DOWNSTREAM OF DAM	Longitude: 70 15 16.14 W
	Stream Order: 5

Sample Information

Log Number: 2665	Type of Sample: ROCK BASKET	Date Deployed: 7/19/2018
Subsample Factor: X1	Replicates: 3	Date Retrieved: 8/16/2018

Classification Attainment

Statutory Class: B	Final Determination: C	Date: 2/21/2019
Model Result with $P \geq 0.6$: C	Reason for Determination: Model	
Date Last Calculated: 2/19/2019	Comments: Low Numbers (52.67).	

Model Probabilities

<u>First Stage Model</u>		<u>C or Better Model</u>	
Class A	0.00	Class A, B, or C	0.97
Class B	0.01	Non-Attainment	0.03
		<u>A Model</u>	
<u>B or Better Model</u>		Class A	0.02
Class A or B	0.00	Class B or C or Non-Attainment	0.98
Class C or Non-Attainment	1.00		

Model Variables

01 Total Mean Abundance	52.67	18 Relative Abundance Ephemeroptera	0.27
02 Generic Richness	32.00	19 EPT Generic Richness	12.00
03 Plecoptera Mean Abundance	0.00	21 Sum of Abundances: <i>Dicrotendipes</i> , <i>Micropsectra</i> , <i>Parachironomus</i> , <i>Helobdella</i>	0.67
04 Ephemeroptera Mean Abundance	14.33	23 Relative Generic Richness- Plecoptera	0.00
05 Shannon-Wiener Generic Diversity	4.22	25 Sum of Abundances: <i>Cheumatopsyche</i> , <i>Cricotopus</i> , <i>Tanytarsus</i> , <i>Ablabesmyia</i>	9.33
06 Hilsenhoff Biotic Index	5.79	26 Sum of Abundances: <i>Acroneuria</i> , <i>Maccaffertium</i> , <i>Stenonema</i>	2.67
07 Relative Abundance - Chironomidae	0.11	28 EP Generic Richness/14	0.36
08 Relative Generic Richness Diptera	0.22	30 Presence of Class A Indicator Taxa/7	0.14
09 <i>Hydropsyche</i> Abundance	0.33		
11 <i>Cheumatopsyche</i> Abundance	6.67		
12 EPT Generic Richness/ Diptera Generic Richness	1.71		
13 Relative Abundance - Oligochaeta	0.00		
15 Perlidae Mean Abundance (Family Functional Group)	0.00		
16 Tanypodinae Mean Abundance (Family Functional Group)	2.33		
17 Chironomini Abundance (Family Functional Group)	1.33		

Five Most Dominant Taxa

Rank	Taxon Name	Percent
1	<i>Stenacron</i>	18.35
2	<i>Cheumatopsyche</i>	12.66
3	<i>Ceratomyza</i>	9.49
4	<i>Orconectes</i>	7.59
5	<i>Hyalella</i>	5.06
6	<i>Maccaffertium</i>	5.06
7	<i>Ceraclea</i>	5.06



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Station Number: S-860 Town: Turner Date Deployed: 7/19/2018
Log Number: 2665 Waterbody: Nezinscot River - Station 860 Date Retrieved: 8/16/2018

Sample Collection and Processing Information

Sampling Organization: BIOMONITORING UNIT Taxonomist: MICHAEL COLE

Waterbody Information - Deployment

Temperature: 23.5 deg C
Dissolved Oxygen: 8.34 mg/l
Dissolved Oxygen Saturation: 97.1 %
Specific Conductance: 102.7 uS/cm
Velocity: 6.1 cm/s
pH: 7.08
Wetted Width: 40 m
Bankfull Width: 40 m
Depth: 63 cm

Waterbody Information - Retrieval

Temperature: 23.4 deg C
Dissolved Oxygen: 8.55 mg/l
Dissolved Oxygen Saturation: 100 %
Specific Conductance: 86.7 uS/cm
Velocity: 12.2 cm/s
pH: 6.9
Wetted Width: 40 m
Bankfull Width: 40 m
Depth: 77 cm

Water Chemistry

Summary of Habitat Characteristics

<u>Landuse Name</u>	<u>Canopy Cover</u>	<u>Terrain</u>
Upland Hardwood	Open	Rolling
<u>Potential Stressor</u>	<u>Location</u>	<u>Substrate</u>
Altered Hydrology	Below Dam	Bedrock 0 %
	Below Road Crossing	Boulder 15 %
		Gravel 15 %
	Main Stem	Rubble/Cobble 50 %
		Sand 20 %

Landcover Summary - 2004 Data

Total Area (ac) 100661	High Int. Dev. % 0.3	Water % 1.9	Non-vegetated % 0.1
	Med Int. Dev. % 0.2	Wetland % 5.9	Tilled Agriculture % 1.0
	Low Int. Dev. % 2.1	Upland Woody % 82.6	Grassland % 5.5
	Development % 2.6	Natural % 88.8	Human Altered % 9.3
			Impervious % 2.9

Sample Comments

TWO SETS OF SAMPLERS WERE DEPLOYED AT THIS SITE. THIS IS S-860A. Fish, sponges, crayfish.



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

Station Number: S-860	Waterbody: Nezinscot River - Station 860	Town: Turner
Log Number: 2665	Subsample Factor: X1	Replicates: 3
		Calculated: 2/19/2019

Taxon	Maine Taxonomic Code	Count		Hilsenhoff Biotic Index	Functional Feeding Group	Relative Abundance %	
		(Mean of Samplers)				Actual	Adjusted
		Actual	Adjusted				
<i>Girardia</i>	03010102002	1.67	1.67		--	3.2	3.2
<i>Crangonyx</i>	09010202004	1.33	1.33	8	--	2.5	2.5
<i>Synurella</i>	09010202006	0.33	0.33		--	0.6	0.6
<i>Hyalella</i>	09010203006	2.67	2.67	8	CG	5.1	5.1
<i>Orconectes</i>	09010301008	4.00	4.00		CG	7.6	7.6
<i>Argia</i>	09020309048	0.33	0.33	7	PR	0.6	0.6
<i>Procladius</i>	09020401010	1.33	1.33		CG	2.5	2.5
<i>Leucrocuta</i>	09020402011	0.33	0.33	1	SC	0.6	0.6
<i>Stenacron</i>	09020402014		9.67	7	SC		18.4
<i>Stenacron interpunctatum</i>	09020402014045	9.67			--	18.4	
<i>Maccaffertium</i>	09020402015	1.33	2.67	4	SC	2.5	5.1
<i>Maccaffertium modestum</i>	09020402015051	1.33			--	2.5	
Leptophlebiidae	09020406	0.33	0.33		--	0.6	0.6
<i>Ceratomyza</i>	09020603006	5.00	5.00		PR	9.5	9.5
<i>Cheumatopsyche</i>	09020604015	6.67	6.67	5	CF	12.7	12.7
<i>Hydropsyche</i>	09020604016	0.33	0.33	4	CF	0.6	0.6
<i>Macrostemum</i>	09020604018	0.33	0.33	3	CF	0.6	0.6
<i>Hydroptila</i>	09020607026	1.33	1.33	6	P	2.5	2.5
<i>Pycnopsyche</i>	09020610049	0.67	0.67	4	SH	1.3	1.3
<i>Ceraclea</i>	09020618072	2.67	2.67	3	CG	5.1	5.1
Chironomidae	09021011				--		
<i>Ablabesmyia</i>	09021011001	1.67	1.67	8	PR	3.2	3.2
<i>Thienemannimyia</i>	09021011020		0.67	3	PR		1.3
<i>Thienemannimyia group</i>	09021011020041	0.67			--	1.3	
<i>Cricotopus</i>	09021011037			7	SH		
<i>Paratanytarsus</i>	09021011071	0.33	0.33	6	--	0.6	0.6
<i>Rheotanytarsus</i>	09021011072		1.00	6	CF		1.9
<i>Rheotanytarsus exiguus group</i>	09021011072127	1.00			CF	1.9	
<i>Tanytarsus</i>	09021011076	1.00	1.00	6	CF	1.9	1.9
<i>Dicrotendipes</i>	09021011085	0.67	0.67	8	CG	1.3	1.3
<i>Microtendipes</i>	09021011094		0.67	6	CF		1.3
<i>Microtendipes pedellus group</i>	09021011094166	0.67			--	1.3	
<i>Psephenus</i>	09021108058		2.00	4	SC		3.8
<i>Psephenus herricki</i>	09021108058028	2.00			--	3.8	
<i>Ancyronyx</i>	09021113063		0.67	6	--		1.3
<i>Ancyronyx variegatus</i>	09021113063034	0.67			CG	1.3	
<i>Dubiraphia</i>	09021113064	0.33	0.33	6	--	0.6	0.6



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Station Number: S-860

Waterbody: Nezinscot River - Station 860

Town: Turner

Log Number: 2665

Subsample Factor: X1

Replicates: 3

Calculated: 2/19/2019

Taxon	Maine Taxonomic Code	Count (Mean of Samplers)		Hilsenhoff Biotic Index	Functional Feeding Group	Relative Abundance %	
		Actual	Adjusted			Actual	Adjusted
<i>Promoresia</i>	09021113069		0.67		--		1.3
<i>Promoresia elegans</i>	09021113069051	0.67			--	1.3	
<i>Amnicola</i>	10010104013	0.67	0.67		SC	1.3	1.3
<i>Helisoma</i>	10010203030		0.33		SC		0.6
<i>Helisoma anceps</i>	10010203030058	0.33			--	0.6	
<i>Ferrissia</i>	10010204035	0.33	0.33		SC	0.6	0.6