



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

Station Information

Station Number: S-345	River Basin: Androscoggin
Waterbody: Swift River - Station 345	HUC8 Name: Lower Androscoggin
Town: Rumford	Latitude: 44 33 34.14 N
Directions: HOSOMER PARK	Longitude: 70 32 58.67 W
	Stream Order: 4

Sample Information

Log Number: 2670	Type of Sample: ROCK BAG	Date Deployed: 7/23/2018
Subsample Factor: X4	Replicates: 3	Date Retrieved: 8/20/2018

Classification Attainment

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

Model Probabilities

<u>First Stage Model</u>		<u>C or Better Model</u>	
Class A	0.27	Class C	0.06
Class B	0.68	NA	0.00
<u>B or Better Model</u>		<u>A Model</u>	
Class A or B	1.00	Class A	0.36
Class C or Non-Attainment	0.00	Class B or C or Non-Attainment	0.64

Model Variables

01 Total Mean Abundance	1028.00	18 Relative Abundance Ephemeroptera	0.20
02 Generic Richness	41.00	19 EPT Generic Richness	21.00
03 Plecoptera Mean Abundance	8.00	21 Sum of Abundances: <i>Dicrotendipes</i> ,	0.00
04 Ephemeroptera Mean Abundance	208.00	<i>Micropsectra</i> , <i>Parachironomus</i> , <i>Helobdella</i>	
05 Shannon-Wiener Generic Diversity	3.46	23 Relative Generic Richness- Plecoptera	0.05
06 Hilsenhoff Biotic Index	4.24	25 Sum of Abundances: <i>Cheumatopsyche</i> ,	37.33
07 Relative Abundance - Chironomidae	0.29	<i>Cricotopus</i> , <i>Tanytarsus</i> , <i>Ablabesmyia</i>	
08 Relative Generic Richness Diptera	0.29	26 Sum of Abundances: <i>Acroneuria</i> ,	16.00
09 <i>Hydropsyche</i> Abundance	354.67	<i>Maccaffertium</i> , <i>Stenonema</i>	
11 <i>Cheumatopsyche</i> Abundance	20.00	28 EP Generic Richness/14	0.79
12 EPT Generic Richness/ Diptera	1.75	30 Presence of Class A Indicator Taxa/7	0.29
Generic Richness			
13 Relative Abundance - Oligochaeta	0.00	Five Most Dominant Taxa	
15 Perlidae Mean Abundance (Family	6.67	Rank	Taxon Name
Functional Group)		1	<i>Hydropsyche</i>
16 Tanypodinae Mean Abundance	20.00	2	<i>Rheotanytarsus</i>
(Family Functional Group)		3	<i>Iswaeon</i>
17 Chironomini Abundance (Family	22.67	4	<i>Ephemerella</i>
Functional Group)		5	<i>Rhyacophila</i>
			Percent
			34.50
			21.14
			8.75
			5.84
			3.89



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Station Number: S-345	Town: Rumford	Date Deployed: 7/23/2018
Log Number: 2670	Waterbody: Swift River - Station 345	Date Retrieved: 8/20/2018

Sample Collection and Processing Information

Sampling Organization: BIOMONITORING UNIT

Taxonomist: MICHAEL COLE

Waterbody Information - Deployment

Temperature:	21.5 deg C
Dissolved Oxygen:	10.25 mg/l
Dissolved Oxygen Saturation:	114.8 %
Specific Conductance:	63.8 uS/cm
Velocity:	33.5 cm/s
pH:	6.94
Wetted Width:	42 m
Bankfull Width:	44 m
Depth:	28 cm

Waterbody Information - Retrieval

Temperature:	19.8 deg C
Dissolved Oxygen:	10.7 mg/l
Dissolved Oxygen Saturation:	116.1 %
Specific Conductance:	40.6 uS/cm
Velocity:	45.7 cm/s
pH:	6.7
Wetted Width:	44 m
Bankfull Width:	44 m
Depth:	22 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>
Nps Pollution	Above Town	Boulder 25 %
		Gravel 20 %
		Rubble/Cobble 35 %
		Sand 20 %

Landcover Summary - 2004 Data

Sample Comments

FISH, ATV TRACKS DOWN RIVER BED, ROCKS COVERED IN SILT



Maine Department of Environmental Protection
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Aquatic Life Taxonomic Inventory Report

Station Number: S-345

Waterbody: Swift River - Station 345

Town: Rumford

Log Number: 2670

Subsample Factor: X4

Replicates: 3

Calculated: 12/12/2018

Taxon	Maine Taxonomic Code	Count (Mean of Samplers)		Hilsenhoff Biotic Index	Functional Feeding Group	Relative Abundance %	
		Actual	Adjusted			Actual	Adjusted
<i>Prostoma</i>	04010101001	4.00	4.00		--	0.4	0.4
Tubificida	080202	1.33	1.33		--	0.1	0.1
Chloroperlidae	09020208	1.33	1.33		--	0.1	0.1
<i>Acroneuria</i>	09020209042	6.67	6.67	0	PR	0.6	0.6
<i>Boyeria</i>	09020301004		1.33	2	PR		0.1
<i>Boyeria vinosa</i>	09020301004012	1.33			--	0.1	
Gomphidae	09020302	6.67	6.67		--	0.6	0.6
Baetidae	09020401	2.67			--	0.3	
<i>Baetis</i>	09020401001		12.26	4	CG		1.2
<i>Baetis intercalaris</i>	09020401001008	12.00			--	1.2	
<i>Acerpenna</i>	09020401007		8.18	5	CG		0.8
<i>Acerpenna macdunnoughi</i>	09020401007001	1.33			--	0.1	
<i>Acerpenna pygmaea</i>	09020401007011	6.67			--	0.6	
<i>Plauditus</i>	09020401012	13.33	13.63		CG	1.3	1.3
<i>Iswaeon</i>	09020401015		89.93		--		8.7
<i>Iswaeon anoka</i>	09020401015001	88.00			--	8.6	
<i>Maccaffertium</i>	09020402015	8.00	9.33	4	SC	0.8	0.9
<i>Maccaffertium vicarium</i>	09020402015055	1.33			--	0.1	
<i>Neoleptophlebia</i>	09020406027	6.67	6.67		--	0.6	0.6
<i>Ephemerella</i>	09020410035	60.00	60.00	1	CG	5.8	5.8
<i>Serratella</i>	09020410037		6.67	2	CG		0.6
<i>Serratella serratoides</i>	09020410037124	6.67			--	0.6	
<i>Tricorythodes</i>	09020411038	1.33	1.33	4	CG	0.1	0.1
<i>Chimarra</i>	09020601003	9.33	14.67	2	CF	0.9	1.4
<i>Chimarra socia</i>	09020601003004	5.33			--	0.5	
Polycentropodidae	09020603	1.33	1.33		--	0.1	0.1
<i>Cheumatopsyche</i>	09020604015	20.00	20.00	5	CF	1.9	1.9
<i>Hydropsyche</i>	09020604016	296.00	354.67	4	CF	28.8	34.5
<i>Hydropsyche bronta</i>	09020604016029	1.33			--	0.1	
<i>Hydropsyche morosa</i>	09020604016030	17.33			--	1.7	
<i>Hydropsyche sparna</i>	09020604016032	34.67			--	3.4	
<i>Hydropsyche scalaris species group</i>	09020604016048	5.33			--	0.5	
<i>Rhyacophila</i>	09020605019		40.00	2	PR		3.9
<i>Rhyacophila minora</i>	09020605019063	40.00			PR	3.9	
<i>Hydroptila</i>	09020607026	2.67	2.67	6	P	0.3	0.3
<i>Brachycentrus</i>	09020609043		14.67	0	CF		1.4
<i>Brachycentrus appalachia</i>	09020609043096	14.67			--	1.4	



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<i>Lepidostoma</i>	09020611064	2.67	2.67	1	SH	0.3	0.3
<i>Helicopsyche</i>	09020616070		1.33	3	SC		0.1
<i>Helicopsyche borealis</i>	09020616070137	1.33			--	0.1	
<i>Oecetis</i>	09020618078	5.33	5.33	8	PR	0.5	0.5
<i>Bezzia/palpomyia</i>	09021010043	1.33	1.33	6	PR	0.1	0.1
<i>Pentaneura</i>	09021011014	10.67	10.67	6	PR	1.0	1.0
<i>Thienemannimyia</i>	09021011020		9.33	3	PR		0.9
<i>Thienemannimyia group</i>	09021011020041	9.33			--	0.9	
<i>Cricotopus</i>	09021011037		13.33	7	SH		1.3
<i>Cricotopus bicinctus</i>	09021011037057	13.33			--	1.3	
<i>Orthocladius</i>	09021011050		2.67	6	CG		0.3
<i>Orthocladius dubitatus</i>	09021011050103	2.67			--	0.3	
<i>Parametriocnemus</i>	09021011053	5.33	5.33	5	CG	0.5	0.5
<i>Tvetenia</i>	09021011065		14.67	5	CG		1.4
<i>Tvetenia vitracies</i>	09021011065113	14.67			--	1.4	
<i>Rheotanytarsus</i>	09021011072		217.33	6	CF		21.1
<i>Rheotanytarsus exiguus group</i>	09021011072127	204.00			CF	19.8	
<i>Rheotanytarsus pellucidus</i>	09021011072128	13.33			CF	1.3	
<i>Tanytarsus</i>	09021011076	4.00	4.00	6	CF	0.4	0.4
<i>Polypedilum</i>	09021011102		22.67	6	SH		2.2
<i>Polypedilum aviceps</i>	09021011102181	4.00			--	0.4	
<i>Polypedilum flavum</i>	09021011102182	18.67			--	1.8	
<i>Simulium</i>	09021012047	18.67	18.67	4	CF	1.8	1.8
<i>Atherix</i>	09021015055	9.33	9.33	2	PR	0.9	0.9
<i>Dubiraphia</i>	09021113064	2.67	2.67	6	--	0.3	0.3
<i>Optioservus</i>	09021113067	1.33	1.33	3	SC	0.1	0.1
<i>Stenelmis</i>	09021113070	6.67	6.67	5	SC	0.6	0.6
<i>Sperchonopsis</i>	09030107002	1.33	1.33		--	0.1	0.1