



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

Station Information

Station Number: S-345

Waterbody: Swift River - Station 345

Town: Rumford

Directions: HOSOMER PARK

DEP Drainage: Androscoggin

HUC8 Name: Lower Androscoggin

Latitude: 44 33 34.14 N

Longitude: 70 32 58.67 W

Stream Order: 4

Sample Information

Log Number: 2220

Type of Sample: ROCK BAG

Date Deployed: 7/25/2013

Subsample Factor: X4

Replicates: 3

Date Retrieved: 8/26/2013

Classification Attainment

Statutory Class: B

Final Determination: A

Date: 3/18/2014

Model Result with P>.6: A

Reason for Determination: Model

Date Last Calculated: 3/17/2014

Comments: Low Class A (.64).

Model Probabilities

First Stage Model

Class A	0.28	Class C	0.08
Class B	0.64	NA	0.00

B or Better Model

Class A or B	1.00
Class C or Non-Attainment	0.00

C or Better Model

Class A, B, or C	1.00
Non-Attainment	0.00

A Model

Class A	0.64
Class B or C or Non-Attainment	0.36

Model Variables

01 Total Mean Abundance	1006.67	18 Relative Abundance Ephemeroptera	0.13																					
02 Generic Richness	56.00	19 EPT Generic Richness	22.00																					
03 Plecoptera Mean Abundance	2.67	21 Sum of Abundances: <i>Dicrotendipes</i> , <i>Micropsectra</i> , <i>Parachironomus</i> , <i>Helobdella</i>	0.00																					
04 Ephemeroptera Mean Abundance	128.00	23 Relative Generic Richness- Plecoptera	0.02																					
05 Shannon-Wiener Generic Diversity	4.01	25 Sum of Abundances: <i>Cheumatopsyche</i> , <i>Cricotopus</i> , <i>Tanytarsus</i> , <i>Ablabesmyia</i>	80.19																					
06 Hilsenhoff Biotic Index	4.78	26 Sum of Abundances: <i>Acroneuria</i> , <i>Maccaffertium</i> , <i>Stenonema</i>	32.81																					
07 Relative Abundance - Chironomidae	0.54	28 EP Generic Richness/14	0.86																					
08 Relative Generic Richness Diptera	0.43	30 Presence of Class A Indicator Taxa/7	0.43																					
09 <i>Hydropsyche</i> Abundance	240.72	<table><tr><th colspan="3">Five Most Dominant Taxa</th></tr><tr><th>Rank</th><th>Taxon Name</th><th>Percent</th></tr><tr><td>1</td><td><i>Hydropsyche</i></td><td>23.91</td></tr><tr><td>2</td><td><i>Rheotanytarsus</i></td><td>20.43</td></tr><tr><td>3</td><td><i>Polypedilum</i></td><td>7.66</td></tr><tr><td>4</td><td><i>Microtendipes</i></td><td>6.32</td></tr><tr><td>5</td><td><i>Tvetenia</i></td><td>4.17</td></tr></table>		Five Most Dominant Taxa			Rank	Taxon Name	Percent	1	<i>Hydropsyche</i>	23.91	2	<i>Rheotanytarsus</i>	20.43	3	<i>Polypedilum</i>	7.66	4	<i>Microtendipes</i>	6.32	5	<i>Tvetenia</i>	4.17
Five Most Dominant Taxa																								
Rank	Taxon Name	Percent																						
1	<i>Hydropsyche</i>	23.91																						
2	<i>Rheotanytarsus</i>	20.43																						
3	<i>Polypedilum</i>	7.66																						
4	<i>Microtendipes</i>	6.32																						
5	<i>Tvetenia</i>	4.17																						
11 <i>Cheumatopsyche</i> Abundance	17.94																							
12 EPT Generic Richness/ Diptera	0.92																							
Generic Richness																								
13 Relative Abundance - Oligochaeta	0.00																							
15 Perlidae Mean Abundance (Family	2.67																							
Functional Group)																								
16 Tanypodinae Mean Abundance	21.65																							
(Family Functional Group)																								
17 Chironomini Abundance (Family	165.10																							
Functional Group)																								



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<b>Station Number: S-345</b>	Town: Rumford	Date Deployed: 7/25/2013
<b>Log Number: 2220</b>	Waterbody: Swift River - Station 345	Date Retrieved: 8/26/2013

**Sample Collection and Processing Information**

Sampling Organization: BIOMONITORING UNIT

Taxonomist: MICHAEL WINNELL

**Waterbody Information - Deployment**

Temperature:	17.3 deg C
Dissolved Oxygen:	9.3 mg/l
Specific Conductance:	28 uS/cm
Velocity:	62.7 cm/s
pH:	6.05
Wetted Width:	25 m
Bankfull Width:	26 m
Depth:	60 cm

**Waterbody Information - Retrieval**

Temperature:	19 deg C
Dissolved Oxygen:	8.5 mg/l
Specific Conductance:	38 uS/cm
Velocity:	17.4 cm/s
pH:	5.98
Wetted Width:	20.6 m
Bankfull Width:	26 m
Depth:	35 cm

**Water Chemistry**

**Summary of Habitat Characteristics**

Landuse Name

Upland Hardwood  
Urban

Canopy Cover

Open

Terrain

Rolling

Potential Stressor

Nps Pollution

Location

Above Town

Substrate

Boulder	25 %
Gravel	20 %
Rubble/Cobble	35 %
Sand	20 %

**Landcover Summary - 2004 Data**

**Sample Comments**

8/26/2013 - ALGAE AND SCULPIN OBSERVED

7/25/2013 - ALGAE PRESENT



**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: 2220**

Subsample Factor: X4

Replicates: 3

Calculated: 3/17/2014

Taxon	Maine Taxonomic Code	Count (Mean of Samplers)		Hilsenhoff Biotic Index	Functional Feeding Group	Relative Abundance	
		Actual	Adjusted			Actual	Adjusted
<i>Hydra</i>	02010101001	1.33	1.33		PR	0.1	0.1
<i>Prostoma</i>	04010101001	1.33	1.33		--	0.1	0.1
<i>Nais</i>	08020202009		2.67		CG		0.3
<i>Nais behningi</i>	08020202009003	1.33			--	0.1	
<i>Nais communis</i>	08020202009005	1.33			--	0.1	
<i>Acroneuria</i>	09020209042	1.33	2.67	0	PR	0.1	0.3
<i>Acroneuria lycorias</i>	09020209042125	1.33			--	0.1	
<i>Boyeria</i>	09020301004		4.00	2	PR		0.4
<i>Boyeria grafiana</i>	09020301004011	2.67			--	0.3	
<i>Boyeria vinosa</i>	09020301004012	1.33			--	0.1	
Gomphidae	09020302	5.33	5.33		--	0.5	0.5
<i>Ophiogomphus</i>	09020302015	1.33	1.33	1	PR	0.1	0.1
Baetidae	09020401	2.67			--	0.3	
<i>Centropilum</i>	09020401003	2.67	4.00	2	CG	0.3	0.4
<i>Labiobaetis</i>	09020401009		2.00		--		0.2
<i>Labiobaetis propinquus</i>	09020401009010	1.33			--	0.1	
<i>Plauditus</i>	09020401012	1.33	2.00		CG	0.1	0.2
Heptageniidae	09020402	4.00			--	0.4	
<i>Leucrocuta</i>	09020402011	1.33	1.51	1	SC	0.1	0.1
<i>Rhithrogena</i>	09020402013	1.33	1.51	0	SC	0.1	0.1
<i>Stenacron</i>	09020402014	1.33	1.51	7	SC	0.1	0.1
<i>Maccaffertium</i>	09020402015	17.33	30.14	4	SC	1.7	3.0
<i>Maccaffertium luteum</i>	09020402015049	9.33			--	0.9	
Leptophlebiidae	09020406	1.33	1.33		--	0.1	0.1
Ephemerellidae	09020410	6.67			--	0.7	
<i>Ephemerella</i>	09020410035	37.33	40.79	1	CG	3.7	4.1
<i>Serratella</i>	09020410037		37.88	2	CG		3.8
<i>Serratella serrata</i>	09020410037123	1.33			--	0.1	
<i>Serratella serratoides</i>	09020410037124	33.33			--	3.3	
<i>Tricorythodes</i>	09020411038	5.33	5.33	4	CG	0.5	0.5
Polycentropodidae	09020603	1.33	1.33		--	0.1	0.1
<i>Neureclipsis</i>	09020603008	9.33	9.33	7	CF	0.9	0.9
Hydropsychidae	09020604	28.00			--	2.8	
<i>Cheumatopsyche</i>	09020604015	16.00	17.94	5	CF	1.6	1.8
<i>Hydropsyche</i>	09020604016	193.33	240.72	4	CF	19.2	23.9
<i>Hydropsyche bronta</i>	09020604016029	1.33			--	0.1	
<i>Hydropsyche morosa</i>	09020604016030	6.67			--	0.7	
<i>Hydropsyche slossonae</i>	09020604016031	1.33			--	0.1	



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Replicates: 3

Calculated: 3/17/2014

Taxon	Maine Taxonomic Code	Count (Mean of Samplers)		Hilsenhoff Biotic Index	Functional Feeding Group	Relative Abundance	
		Actual	Adjusted			Actual	Adjusted
<i>Hydropsyche sparna</i>	09020604016032	5.33			--	0.5	
<i>Hydropsyche placoda</i>	09020604016059	6.67			--	0.7	
<i>Rhyacophila</i>	09020605019		4.00	2	PR		0.4
<i>Rhyacophila minor</i>	09020605019063	4.00			PR	0.4	
<i>Hydroptila</i>	09020607026	1.33	1.33	6	P	0.1	0.1
<i>Brachycentrus</i>	09020609043	2.67	6.67	0	CF	0.3	0.7
<i>Brachycentrus appalachia</i>	09020609043096	4.00			--	0.4	
Limnephilidae	09020610				--		
<i>Lepidostoma</i>	09020611064	14.67	14.67	1	SH	1.5	1.5
<i>Setodes</i>	09020618076	4.00	4.00	2	CG	0.4	0.4
<i>Oecetis</i>	09020618078	2.67	4.00	8	PR	0.3	0.4
<i>Oecetis persimilis</i>	09020618078157	1.33			--	0.1	
<i>Antocha</i>	09021001004			3	CG		
Chironomidae	09021011	8.00			--	0.8	
<i>Ablabesmyia</i>	09021011001		4.06	8	PR		0.4
<i>Ablabesmyia mallochi</i>	09021011001004	4.00			--	0.4	
<i>Labrundinia</i>	09021011008		4.06	7	PR		0.4
<i>Labrundinia neopilosella</i>	09021011008021	4.00			--	0.4	
<i>Nilotanyus</i>	09021011012		4.06	6	PR		0.4
<i>Nilotanyus fimbriatus</i>	09021011012027	4.00			--	0.4	
<i>Pentaneura</i>	09021011014		4.06	6	PR		0.4
<i>Pentaneura inconspicua</i>	09021011014028	4.00			--	0.4	
<i>Rheopelopia</i>	09021011017		5.41		PR		0.5
<i>Rheopelopia acra group</i>	09021011017036	5.33			--	0.5	
<i>Potthastia</i>	09021011026		18.95	2	CG		1.9
<i>Potthastia gaedii</i>	09021011026045	18.67			--	1.9	
<i>Corynoneura</i>	09021011036	1.33	1.35	7	CG	0.1	0.1
<i>Cricotopus</i>	09021011037		35.19	7	SH		3.5
<i>Cricotopus bicinctus</i>	09021011037057	33.33			--	3.3	
<i>Cricotopus vierriensis</i>	09021011037071	1.33			--	0.1	
<i>Orthocladius</i>	09021011050		8.12	6	CG		0.8
<i>Orthocladius annectens</i>	09021011050092	4.00			--	0.4	
<i>Orthocladius carlatus</i>	09021011050093	2.67			--	0.3	
<i>Orthocladius lignicola</i>	09021011050100	1.33			--	0.1	
<i>Psectrocladius</i>	09021011056	2.67	4.06	8	CG	0.3	0.4
<i>Psectrocladius simulans</i>	09021011056110	1.33			--	0.1	
<i>Rheocricotopus</i>	09021011057		5.41	6	CG		0.5
<i>Rheocricotopus robacki</i>	09021011057105	5.33			--	0.5	



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		Calculated: 3/17/2014

Taxon	Maine Taxonomic Code	Count (Mean of Samplers)		Hilsenhoff Biotic Index	Functional Feeding Group	Relative Abundance	
		Actual	Adjusted			Actual	Adjusted
<i>Thienemanniella</i>	09021011062	5.33	9.47	6	CG	0.5	0.9
<i>Thienemanniella xena</i>	09021011062110	1.33			--	0.1	
<i>Thienemanniella sp. B</i>	09021011062116	2.67			--	0.3	
<i>Tvetenia</i>	09021011065		41.95	5	CG		4.2
<i>Tvetenia vitracies</i>	09021011065113	41.33			--	4.1	
<i>Rheotanytarsus</i>	09021011072	202.67	205.70	6	CF	20.1	20.4
<i>Stempellinella</i>	09021011074		1.35	2	--		0.1
<i>Stempellinella fimbriata</i>	09021011074002	1.33			--	0.1	
<i>Tanytarsus</i>	09021011076	22.67	23.01	6	CF	2.3	2.3
<i>Microtendipes</i>	09021011094		63.60	6	CF		6.3
<i>Microtendipes pedellus group</i>	09021011094166	42.67			--	4.2	
<i>Microtendipes rydalensis group</i>	09021011094168	20.00			--	2.0	
<i>Nilothauma</i>	09021011095	1.33	1.35	2	--	0.1	0.1
<i>Paratendipes</i>	09021011100		1.35	8	CG		0.1
<i>Paratendipes albimanus group</i>	09021011100176	1.33			--	0.1	
<i>Phaenopsectra</i>	09021011101		21.65	7	SC		2.2
<i>Phaenopsectra obediens</i>	09021011101182	21.33			SC	2.1	
<i>Polypedilum</i>	09021011102	1.33	77.14	6	SH	0.1	7.7
<i>Polypedilum aviceps</i>	09021011102181	45.33			--	4.5	
<i>Polypedilum flavum</i>	09021011102182	29.33			--	2.9	
<i>Hayesomyia</i>	09021011112		1.35		--		0.1
<i>Hayesomyia senata</i>	09021011112001	1.33			--	0.1	
<i>Atherix</i>	09021015055	2.67	2.67	2	PR	0.3	0.3
<i>Hemerodromia</i>	09021016057	2.67	2.67	3	PR	0.3	0.3
<i>Dineutus</i>	09021104032	1.33	1.33	2	--	0.1	0.1
<i>Promoresia</i>	09021113069		4.00		--		0.4
<i>Promoresia tardella</i>	09021113069052	4.00			--	0.4	
<i>Stenelmis</i>	09021113070	1.33	1.33	5	SC	0.1	0.1
<i>Ferrissia</i>	10010204035		1.33		SC		0.1
<i>Ferrissia rivularis</i>	10010204035066	1.33			--	0.1	