



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

Station Information

Station Number:	S-359	DEP Drainage:	Androscoggin
Waterbody:	Sabattus River - Station 359	HUC8:	01040002
Town:	Sabattus	HUC8 Name:	Lower Androscoggin
Directions:	50 M BELOW CROWLEY RD BRIDGE CROSSING	Latitude:	44 4 24.34 N
		Longitude:	70 6 17.27 W
		Stream Order:	3

Sample Information

Log Number:	1725	Type of Sample:	ROCK BASKET	Date Deployed:	7/18/2008
Subsample Factor:	X1	Replicates:	3	Date Retrieved:	8/21/2008

Classification Attainment

Statutory Class:	C	Final Determination:	C	Date:	3/23/2009
Model Result with P>.6:	C	Reason for Determination:	Model		
Date Last Calculated:	3/18/2009	Comments:			

Model Probabilities

<u>First Stage Model</u>				<u>C or Better Model</u>	
Class A	0.10	Class C	0.57	Class A, B, or C	1.00
Class B	0.29	NA	0.03	Non-Attainment	0.00
<u>B or Better Model</u>				<u>A Model</u>	
Class A or B			0.07	Class A	0.01
Class C or Non-Attainment			0.93	Class B or C or Non-Attainment	0.99

Model Variables

01 Total Mean Abundance	64.33	18 Relative Abundance Ephemeroptera	0.18
02 Generic Richness	19.00	19 EPT Generic Richness	7.00
03 Plecoptera Mean Abundance	0.33	21 Sum of Abundances: <i>Dicrotendipes</i> , <i>Micropsectra</i> , <i>Parachironomus</i> , <i>Helobdella</i>	0.00
04 Ephemeroptera Mean Abundance	11.67	23 Relative Generic Richness- Plecoptera	0.05
05 Shannon-Wiener Generic Diversity	3.47	25 Sum of Abundances: <i>Cheumatopsyche</i> <i>Cricotopus</i> , <i>Tanytarsus</i> , <i>Ablabesmyia</i>	10.00
06 Hilsenhoff Biotic Index	5.32	26 Sum of Abundances: <i>Acroneuria</i> , <i>Maccaffertium</i> , <i>Stenonema</i>	8.00
07 Relative Abundance - Chironomidae	0.10	28 EP Generic Richness/14	0.29
08 Relative Generic Richness Diptera	0.16	30 Presence of Class A Indicator Taxa/7	0.00
09 <i>Hydropsyche</i> Abundance	9.33		
11 <i>Cheumatopsyche</i> Abundance	10.00		
12 EPT Generic Richness/ Diptera Generic Richness	2.33		
13 Relative Abundance - Oligochaeta	0.00		
15 Perlidae Mean Abundance (Family Functional Group)	0.33		
16 Tanypodinae Mean Abundance (Family Functional Group)	0.00		
17 Chironomini Abundance (Family Functional Group)	6.00		

Five Most Dominant Taxa		
Rank	Taxon Name	Percent
1	<i>Caecidotea</i>	17.10
2	<i>Cheumatopsyche</i>	15.54
3	<i>Hydropsyche</i>	14.51
4	<i>Maccaffertium</i>	12.44
5	<i>Polypedilum</i>	9.33



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

Station Number: S-359

Town: Sabattus

Date Deployed: 7/18/2008

Log Number: 1725

Waterbody: Sabattus River - Station 359

Date Retrieved: 8/21/2008

Sample Collection and Processing Information

Sampling Organization: BIOMONITORING UNIT

Taxonomist: MICHAEL WINNELL

Waterbody Information - Deployment

Temperature: 23.9 deg C
Dissolved Oxygen: 7.7 mg/l
Specific Conductance: 128 uS/cm
Velocity: 19 cm/s
pH: 7.06
Wetted Width:
Bankfull Width: 36.4 m
Depth: 36 cm

Waterbody Information - Retrieval

Temperature: 20.8 deg C
Dissolved Oxygen: 8.4 mg/l
Specific Conductance: 101 uS/cm
Velocity: 54 cm/s
pH: 7.42
Wetted Width: 36.4 m
Bankfull Width: 36.4 m
Depth: 40 cm

Water Chemistry - Retrieval

Summary of Habitat Characteristics

Landuse Name

Canopy Cover

Terrain

Pasture

Canopy Partly Open

Flat Terrain

Swamp Hardwood

Upland Hardwood

Stressor

Location

Substrate

Agricultural Runoff Stressor

Below Agriculture NPS

Bedrock 30 %

Lake Outlet Stressor

Below Road Crossing

Boulder 40 %

Rubble/Cobble 30 %

Landcover Summary - 2004 Data

Total Area (ac)	27029	High Int. Dev. %	0.4	Water %	8.0	Non-vegetated %	1.7
Total Land (ac)	25018	Med Int. Dev. %	0.9	Wetland %	9.7	Tilled Agriculture %	3.0
		Low Int. Dev. %	5.4	Upland Woody %	62.2	Human Altered %	28.1
		Development %	6.7	Natural %	71.9	Impervious %	5.2

Sample Comments

TERRAIN FLAT WHERE BASKETS ARE, STEEP DROP RIGHT BEFORE

INITIAL RETRIEVAL ON 8/14, NO BAGS FOUND (WATER LEVEL VERY HIGH); WATER GREEN ON 8/14 AND 8/21



Maine Department of Environmental Protection
Biological Monitoring Program
Aquatic Life Taxonomic Inventory Report

Station Number: S-359	Waterbody: Sabattus River - Station 359	Town: Sabattus
Log Number: 1725	Subsample Factor: X1	Replicates: 3
		Calculated: 3/18/2009

Taxon	Maine Taxonomic Code	Count (Mean of Samplers)		Hilsenhoff Biotic Index	Functional Feeding Group	Relative Abundance	
		Actual	Adjusted			Actual	Adjusted
<i>Girardia</i>	03010102002	1.00	1.00		--	1.6	1.6
<i>Caecidotea</i>	09010101001	4.67	11.00	8	SH	7.3	17.1
<i>Caecidotea racovitzai racovitzai</i>	09010101001002	6.33			--	9.8	
<i>Synurella</i>	09010202006		3.33		--		5.2
<i>Synurella chamberlaini</i>	09010202006001	3.33			--	5.2	
<i>Orconectes</i>	09010301008	0.33	4.00		CG	0.5	6.2
<i>Orconectes limosus</i>	09010301008013	0.33			--	0.5	
<i>Orconectes virilis</i>	09010301008016	3.33			--	5.2	
<i>Attaneuria</i>	09020209043		0.33	1	--		0.5
<i>Attaneuria ruralis</i>	09020209043128	0.33			--	0.5	
<i>Baetis</i>	09020401001	0.33	3.33	4	CG	0.5	5.2
<i>Baetis flavistriga</i>	09020401001004	2.33			--	3.6	
<i>Baetis pluto</i>	09020401001009	0.67			--	1.0	
<i>Pseudocloeon</i>	09020401006		0.33	4	SC		0.5
<i>Pseudocloeon propinquum</i>	09020401006028	0.33			--	0.5	
<i>Maccaffertium</i>	09020402015	3.67	8.00	4	SC	5.7	12.4
<i>Maccaffertium modestum</i>	09020402015051	4.33			--	6.7	
<i>Chimarra</i>	09020601003			2	CF		
<i>Cheumatopsyche</i>	09020604015	10.00	10.00	5	CF	15.5	15.5
<i>Hydropsyche</i>	09020604016	0.33	9.33	4	CF	0.5	14.5
<i>Hydropsyche bronta</i>	09020604016029	0.67			--	1.0	
<i>Hydropsyche morosa</i>	09020604016030	1.00			--	1.6	
<i>Hydropsyche depravata-complex</i>	09020604016041	7.33			CF	11.4	
<i>Pycnopsyche</i>	09020610049	0.33	0.33	4	SH	0.5	0.5
Leptoceridae	09020618				--		
<i>Nanocladius distinctus</i>	09021011049087				--		
<i>Rheotanytarsus</i>	09021011072	0.33	0.33	6	CF	0.5	0.5
<i>Polypedilum</i>	09021011102		6.00	6	SH		9.3
<i>Polypedilum flavum</i>	09021011102182	6.00			--	9.3	
<i>Simulium tuberosum</i>	09021012047067				--		
Tabanidae	09021014	0.33	0.33		--	0.5	0.5
<i>Psephenus</i>	09021108058		0.67	4	SC		1.0
<i>Psephenus herricki</i>	09021108058028	0.67			--	1.0	
Planorbidae	10010203	1.33	1.33		--	2.1	2.1
<i>Planorbella</i>	10010203032		3.33		SC		5.2
<i>Planorbella campanulata</i>	10010203032060	3.33			--	5.2	
<i>Ferrissia</i>	10010204035	0.67	0.67		SC	1.0	1.0
<i>Sphaerium</i>	10020201003		0.67		CF		1.0



Maine Department of Environmental Protection
Biological Monitoring Program
Aquatic Life Taxonomic Inventory Report

Station Number: S-359		Waterbody: Sabattus River - Station 359			Town: Sabattus		
Log Number: 1725		Subsample Factor: X1		Replicates: 3	Calculated: 3/18/2009		
Taxon	Maine Taxonomic Code	Count (Mean of Samplers)		Hilsenhoff Biotic Index	Functional Feeding Group	Relative Abundance	
		Actual	Adjusted			Actual	Adjusted
<i>Sphaerium striatinum</i>	10020201003024	0.67			--	1.0	