



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

Station Information

**Station Number: S-152**  
Waterbody: Piscataquis River - Station 152  
Town: Dover-foxcroft  
Directions: 1 KM BELOW DOVER - FOXCROFT POTW

DEP Drainage: Penobscot  
HUC8: 01020004  
HUC8 Name: Piscataquis  
Latitude: 45 11 8.24 N  
Longitude: 69 10 4.94 W  
Stream Order: 5

Sample Information

**Log Number: 2050** Type of Sample: ROCK BAG Date Deployed: 7/20/2011  
Subsample Factor: X1 Replicates: 3 Date Retrieved: 8/22/2011

Classification Attainment

**Statutory Class: B** **Final Determination: B** Date: 1/27/2012  
Model Result with P>.6: B **Reason for Determination: Model**  
Date Last Calculated: 1/24/2012 Comments:

Model Probabilities

First Stage Model		C or Better Model	
Class A	0.31	Class A, B, or C	1.00
Class B	0.66	Non-Attainment	0.00
Class C			
0.03			
NA			
0.00			
B or Better Model		A Model	
Class A or B	1.00	Class A	0.18
Class C or Non-Attainment	0.00	Class B or C or Non-Attainment	0.82

Model Variables

01 Total Mean Abundance	943.67	18 Relative Abundance Ephemeroptera	0.21
02 Generic Richness	78.00	19 EPT Generic Richness	27.00
03 Plecoptera Mean Abundance	4.67	21 Sum of Abundances: <i>Dicrotendipes</i> , <i>Micropsectra</i> , <i>Parachironomus</i> , <i>Helobdella</i>	95.35
04 Ephemeroptera Mean Abundance	195.33	23 Relative Generic Richness- Plecoptera	0.01
05 Shannon-Wiener Generic Diversity	4.39	25 Sum of Abundances: <i>Cheumatopsyche</i> , <i>Cricotopus</i> , <i>Tanytarsus</i> , <i>Ablabesmyia</i>	168.50
06 Hilsenhoff Biotic Index	6.25	26 Sum of Abundances: <i>Acroneuria</i> , <i>Maccaffertium</i> , <i>Stenonema</i>	19.21
07 Relative Abundance - Chironomidae	0.40	28 EP Generic Richness/14	0.86
08 Relative Generic Richness Diptera	0.32	30 Presence of Class A Indicator Taxa/7	0.14
09 <i>Hydropsyche</i> Abundance	0.00		
11 <i>Cheumatopsyche</i> Abundance	2.00		
12 EPT Generic Richness/ Diptera	1.08		
Generic Richness			
13 Relative Abundance - Oligochaeta	0.01		
15 Perlidae Mean Abundance	4.67		
(Family Functional Group)			
16 Tanypodinae Mean Abundance	80.90		
(Family Functional Group)			
17 Chironomini Abundance (Family	158.91		
Functional Group)			

Five Most Dominant Taxa

Rank	Taxon Name	Percent
1	<i>Amnicola</i>	17.77
2	<i>Tanytarsus</i>	11.33
3	<i>Dicrotendipes</i>	10.10
4	<i>Leptophlebiidae</i>	8.51
5	<i>Ablabesmyia</i>	6.31



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

**Station Number: S-152**

Town: Dover-foxcroft

Date Deployed: 7/20/2011

**Log Number: 2050**

Waterbody: Piscataquis River - Station 152

Date Retrieved: 8/22/2011

**Sample Collection and Processing Information**

Sampling Organization: BIOMONITORING UNIT

Taxonomist: MICHAEL WINNELL

**Waterbody Information - Deployment**

Temperature: 24.4 deg C  
Dissolved Oxygen: 9 mg/l  
Specific Conductance: 66 uS/cm  
Velocity: 7 cm/s  
pH: 7.97  
Wetted Width: 53 m  
Bankfull Width: 55 m  
Depth: 55 cm

**Waterbody Information - Retrieval**

Temperature: 24.1 deg C  
Dissolved Oxygen: 8.4 mg/l  
Specific Conductance: 45 uS/cm  
Velocity: 16 cm/s  
pH:  
Wetted Width: 55 m  
Bankfull Width: 55 m  
Depth: 58 cm

**Water Chemistry - 8/22/2011**

Ammonia As Nitrogen	<0.01 mg/l	Soluble Reactive Phosphorus	11 ug/l
Nitrate+nitrite As N	0.01 mg/l	Total Phosphorus	0.023 mg/l
Total Kjeldahl Nitrogen	0.4 mg/l	Total Suspended Solids	<2 mg/l
Dissolved Organic Carbon	3.3 mg/l	Total Dissolved Solids	47 mg/l

**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>
Nutrients	Below Point Source	Bedrock 60 %
	Main Stem	Boulder 15 %
		Rubble/Cobble 20 %
		Sand 5 %

**Landcover Summary - 2004 Data**

Total Area (ac)	229936	High Int. Dev. %	0.2	Water %	2.1	Non-vegetated %	0.0
		Med Int. Dev. %	0.2	Wetland %	3.3	Tilled Agriculture %	1.8
		Low Int. Dev. %	3.5	Upland Woody %	87.4	Grassland %	1.3
		Development %	3.9	Natural %	90.7	Human Altered %	7.2
						Impervious %	1.3

**Sample Comments**

MULTI-METER WOULD NOT CALIBRATE FOR PH DURING RETRIEVAL. 8/22/11: SMALLMOUTH BASS OBSERVED; LOTS OF OLD, BROWN ALGAE, LESS NEW GREEN ALGAE. HEAVY RAIN 8/21/2011.

7/20/11: FISH AND A LOT OF ALGAE OBSERVED. MOVED SAMPLING LOCATION UPSTREAM OF CROSSING DUE TO IMPROVED ACCESS AND MORE REPRESENTATIVE CONDITIONS, SAME SITE. LOCATION: BELOW TREATMENT PLANT POINT SOURCE.



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

**Station Number: S-152**

Waterbody: Piscataquis River - Station 152

Town: Dover-foxcroft

**Log Number: 2050**

Subsample Factor: X1

Replicates: 3

Calculated: 1/24/2012

Taxon	Maine Taxonomic Code	Count (Mean of Samplers)		Hilsenhoff Biotic Index	Functional Feeding Group	Relative Abundance	
		Actual	Adjusted			Actual	Adjusted
<i>Girardia</i>	03010102002		6.33		--		0.7
<i>Girardia tigrina</i>	03010102002001	6.33			--	0.7	
<i>Chaetogaster</i>	08020202002		7.67		--		0.8
<i>Chaetogaster diastrophus</i>	08020202002002	0.33			--	0.0	
<i>Chaetogaster limnaei</i>	08020202002004	7.33			--	0.8	
<i>Pristina</i>	08020202004		1.33		--		0.1
<i>Pristina leidy</i>	08020202004005	1.00			--	0.1	
<i>Pristina osborni</i>	08020202004007	0.33			--	0.0	
<i>Nais</i>	08020202009		0.33		CG		0.0
<i>Nais communis</i>	08020202009005	0.33			--	0.0	
<i>Slavina</i>	08020202012		0.33		--		0.0
<i>Slavina appendiculata</i>	08020202012001	0.33			--	0.0	
<i>Stylaria</i>	08020202014		3.00		CG		0.3
<i>Stylaria lacustris</i>	08020202014002	3.00			--	0.3	
<i>Hyalella</i>	09010203006		2.00	8	CG		0.2
<i>Hyalella azteca</i>	09010203006011	2.00			--	0.2	
<i>Orconectes</i>	09010301008		0.33		CG		0.0
<i>Orconectes rusticus</i>	09010301008015	0.33			--	0.0	
<i>Acroneuria</i>	09020209042	1.00	4.67	0	PR	0.1	0.5
<i>Acroneuria lycorias</i>	09020209042125	3.67			--	0.4	
<i>Boyeria</i>	09020301004		2.00	2	PR		0.2
<i>Boyeria vinosa</i>	09020301004012	2.00			--	0.2	
Gomphidae	09020302	0.67			--	0.1	
<i>Gomphus</i>	09020302012	0.33	0.67	5	PR	0.0	0.1
<i>Ophiogomphus</i>	09020302015		0.67	1	PR		0.1
<i>Ophiogomphus rupinsulensis</i>	09020302015035	0.33			--	0.0	
<i>Macromia</i>	09020304021	0.33	0.33	2	PR	0.0	0.0
<i>Neurocordulia</i>	09020305026		1.00	2	PR		0.1
<i>Neurocordulia michaeli</i>	09020305026054	1.00			--	0.1	
Coenagrionidae	09020309	2.33			--	0.2	
<i>Argia</i>	09020309048	7.00	12.19	7	PR	0.7	1.3
<i>Argia moesta</i>	09020309048096	3.00			--	0.3	
<i>Enallagma</i>	09020309051	0.67	0.81	9	PR	0.1	0.1
Baetidae	09020401	1.00			--	0.1	
<i>Acerpenna</i>	09020401007	1.00	3.74	5	CG	0.1	0.4
<i>Acerpenna pygmaea</i>	09020401007011	2.67			--	0.3	
<i>Proclotron</i>	09020401010	48.67	49.58		CG	5.2	5.3
<i>Iswaeon</i>	09020401015	0.67	0.68		--	0.1	0.1



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

<b>Station Number: S-152</b>	Waterbody: Piscataquis River - Station 152	Town: Dover-foxcroft
<b>Log Number: 2050</b>	Subsample Factor: X1	Replicates: 3
		Calculated: 1/24/2012

Taxon	Maine Taxonomic Code	Count (Mean of Samplers)		Hilsenhoff Biotic Index	Functional Feeding Group	Relative Abundance	
		Actual	Adjusted			Actual	Adjusted
Heptageniidae	09020402	8.33			--	0.9	
<i>Leucrocota</i>	09020402011	0.33	0.40	1	SC	0.0	0.0
<i>Stenacron</i>	09020402014	25.33	32.72	7	SC	2.7	3.5
<i>Stenacron interpunctatum</i>	09020402014045	1.67			--	0.2	
<i>Maccaffertium</i>	09020402015	1.33	14.54	4	SC	0.1	1.5
<i>Maccaffertium luteum</i>	09020402015049	10.67			--	1.1	
Leptophlebiidae	09020406	80.33	80.33		--	8.5	8.5
<i>Paraleptophlebia</i>	09020406026	0.33	0.33	1	CG	0.0	0.0
Ephemerellidae	09020410	0.67	0.67		--	0.1	0.1
<i>Tricorythodes</i>	09020411038	5.33	5.33	4	CG	0.6	0.6
<i>Caenis</i>	09020412040	7.00	7.00	7	CG	0.7	0.7
<i>Cernotina</i>	09020603006	13.67	13.67		PR	1.4	1.4
<i>Neureclipsis</i>	09020603008	3.67	3.67	7	CF	0.4	0.4
<i>Polycentropus</i>	09020603010	43.00	43.00	6	PR	4.6	4.6
<i>Cheumatopsyche</i>	09020604015	2.00	2.00	5	CF	0.2	0.2
<i>Protoptila</i>	09020606022	0.33	0.33	1	SC	0.0	0.0
Hydroptilidae	09020607				--		
<i>Hydroptila</i>	09020607026	4.67	4.67	6	P	0.5	0.5
<i>Oxyethira</i>	09020607028	2.33	2.33	3	P	0.2	0.2
<i>Micrasema</i>	09020609044		0.33	2	SH		0.0
<i>Micrasema rusticum group</i>	09020609044100	0.33			--	0.0	
<i>Pycnopsyche</i>	09020610049	0.67	0.67	4	SH	0.1	0.1
<i>Apatania</i>	09020610061	1.33	1.33		SC	0.1	0.1
<i>Lepidostoma</i>	09020611064	1.33	1.33	1	SH	0.1	0.1
<i>Ceraclea</i>	09020618072	0.33	0.33	3	CG	0.0	0.0
<i>Nectopsyche</i>	09020618074	0.67	1.00	3	SH	0.1	0.1
<i>Nectopsyche exquisita</i>	09020618074147	0.33			--	0.0	
<i>Triaenodes</i>	09020618077	0.33	0.33	6	SH	0.0	0.0
<i>Oecetis</i>	09020618078	3.67	6.67	8	PR	0.4	0.7
<i>Oecetis avara</i>	09020618078153	1.00			--	0.1	
<i>Oecetis inconspicua complex</i>	09020618078156	0.33			--	0.0	
<i>Oecetis persimilis</i>	09020618078157	1.67			--	0.2	
<i>Corydalus</i>	09020701002		0.67	6	PR		0.1
<i>Corydalus cornutus</i>	09020701002002	0.67			--	0.1	
<i>Tipula</i>	09021001002	0.33	0.33	4	SH	0.0	0.0
<i>Bezzia/palpomyia</i>	09021010043	2.00	2.00	6	PR	0.2	0.2
Chironomidae	09021011	29.33			--	3.1	
<i>Ablabesmyia</i>	09021011001		59.59	8	PR		6.3



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

<b>Station Number: S-152</b>	Waterbody: Piscataquis River - Station 152	Town: Dover-foxcroft
<b>Log Number: 2050</b>	Subsample Factor: X1	Replicates: 3
		Calculated: 1/24/2012

Taxon	Maine Taxonomic Code	Count (Mean of Samplers)		Hilsenhoff Biotic Index	Functional Feeding Group	Relative Abundance	
		Actual	Adjusted			Actual	Adjusted
<i>Ablabesmyia mallochi</i>	09021011001004	55.00			--	5.8	
<i>Labrundinia</i>	09021011008		6.86	7	PR		0.7
<i>Labrundinia pilosella</i>	09021011008022	6.33			--	0.7	
<i>Nilotanyus</i>	09021011012		1.44	6	PR		0.2
<i>Nilotanyus fimbriatus</i>	09021011012027	1.33			--	0.1	
<i>Paramerina</i>	09021011013	0.33	0.36		--	0.0	0.0
<i>Pentaneura</i>	09021011014		12.64	6	PR		1.3
<i>Pentaneura inconspicua</i>	09021011014028	11.67			--	1.2	
<i>Corynoneura</i>	09021011036	2.33	2.53	7	CG	0.2	0.3
<i>Nanocladius</i>	09021011049	0.67	7.95	3	CG	0.1	0.8
<i>Nanocladius distinctus</i>	09021011049087	2.00			--	0.2	
<i>Nanocladius branchicolus</i>	09021011049091	2.33			--	0.2	
<i>Nanocladius downesi</i>	09021011049092	2.33			--	0.2	
<i>Orthocladius</i>	09021011050	1.33	1.44	6	CG	0.1	0.2
<i>Parametriocnemus</i>	09021011053	0.33	0.36	5	CG	0.0	0.0
<i>Psectrocladius</i>	09021011056		11.92	8	CG		1.3
<i>Psectrocladius simulans</i>	09021011056110	11.00			--	1.2	
<i>Synorthocladius</i>	09021011061	2.33	2.53	2	CG	0.2	0.3
<i>Thienemanniella</i>	09021011062	0.33	0.72	6	CG	0.0	0.1
<i>Thienemanniella lobapodema</i>	09021011062114	0.33			--	0.0	
<i>Stempellina</i>	09021011073	1.33	1.44	2	CG	0.1	0.2
<i>Stempellinella</i>	09021011074		4.70	2	--		0.5
<i>Stempellinella fimbriata</i>	09021011074002	4.33			--	0.5	
<i>Tanytarsus</i>	09021011076	98.67	106.90	6	CF	10.5	11.3
<i>Pseudochironomus</i>	09021011078	52.00	56.34	5	CG	5.5	6.0
<i>Dicrotendipes</i>	09021011085		95.35	8	CG		10.1
<i>Dicrotendipes neomodestus</i>	09021011085152	88.00			--	9.3	
<i>Microtendipes</i>	09021011094		5.06	6	CF		0.5
<i>Microtendipes pedellus group</i>	09021011094166	3.00			--	0.3	
<i>Microtendipes rydalensis group</i>	09021011094168	1.67			--	0.2	
<i>Nilothauma</i>	09021011095	1.00	1.08	2	--	0.1	0.1
<i>Phaenopsectra</i>	09021011101		0.36	7	SC		0.0
<i>Phaenopsectra obediens</i>	09021011101182	0.33			SC	0.0	
<i>Polypedilum</i>	09021011102		0.36	6	SH		0.0
<i>Polypedilum flavum</i>	09021011102182	0.33			--	0.0	
<i>Xenochironomus</i>	09021011108		0.36	0	PR		0.0
<i>Xenochironomus xenolabis</i>	09021011108200	0.33			--	0.0	
<i>Helopelopia</i>	09021011114	0.33	0.36	6	PR	0.0	0.0



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

<b>Station Number: S-152</b>	Waterbody: Piscataquis River - Station 152	Town: Dover-foxcroft
<b>Log Number: 2050</b>	Subsample Factor: X1	Replicates: 3
		Calculated: 1/24/2012

Taxon	Maine Taxonomic Code	Count (Mean of Samplers)		Hilsenhoff Biotic Index	Functional Feeding Group	Relative Abundance	
		Actual	Adjusted			Actual	Adjusted
<i>Berosus</i>	09021105040	3.00	3.00		P	0.3	0.3
<i>Psephenus</i>	09021108058		0.33	4	SC		0.0
<i>Psephenus herricki</i>	09021108058028	0.33			--	0.0	
<i>Dubiraphia</i>	09021113064	5.00	5.00	6	--	0.5	0.5
<i>Optioservus</i>	09021113067	0.33	1.00	3	SC	0.0	0.1
<i>Optioservus trivittatus</i>	09021113067048	0.67			--	0.1	
<i>Promoresia</i>	09021113069		18.00		--		1.9
<i>Promoresia elegans</i>	09021113069051	16.00			--	1.7	
<i>Promoresia tardella</i>	09021113069052	2.00			--	0.2	
<i>Stenelmis</i>	09021113070	10.67	30.33	5	SC	1.1	3.2
<i>Stenelmis concinna</i>	09021113070054	10.33			--	1.1	
<i>Stenelmis crenata</i>	09021113070055	7.33			--	0.8	
<i>Stenelmis musgravei</i>	09021113070060	2.00			--	0.2	
Gastropoda	1001	0.33	0.33		--	0.0	0.0
<i>Amnicola</i>	10010104013		167.67		SC		17.8
<i>Amnicola limosa</i>	10010104013018	167.67			--	17.8	
<i>Helisoma</i>	10010203030		13.00		SC		1.4
<i>Helisoma anceps</i>	10010203030058	13.00			--	1.4	
Sphaeriidae	10020201	0.33	0.33		CF	0.0	0.0
<i>Musculium</i>	10020201001		0.33		CF		0.0
<i>Musculium securis</i>	10020201001003	0.33			CF	0.0	