

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

**Station Information**

<b>Station Number:</b> S78	DEP Drainage: Androscoggin
Waterbody: Thompson Lake Outlet	HUC Code: 01040002
Town: OXFORD	HUC Name: Lower Androscoggin
Directions: 0.35 km below Robinson outfall, 50 m below Rt 121 Bridge	Latitude: 44 Deg 8 Min 6 Sec
	Longitude: 70 Deg 29 Min 26 Sec
	Stream Order: 3

**Sample Information**

<b>Log Number:</b> 1251	Type of Sample: Experimental	Date Deployed: 24-JUL-03
Subsample Factor: X4	Replicates: 3	Date Retrieved: 21-AUG-03

**Classification Attainment**

Statutory Class: C	<b>Final Determination:</b> C	
Model Result with P > .6: I	Reason for Determination: BPJ	
Date Last Calculated:		

**Model Probabilities**

<u>First Stage Model</u>		<u>C or Better Model</u>	
Class A	0.00	Class A, B, or C	0.99
Class B	0.00	Non-Attainment	0.01
	Class C		
	0.88		
	Class NA		
	0.11		
<u>B or Better Model</u>		<u>A Model</u>	
Class A or B	0.00	Class A	0.00
Class C or Non-Attainment	1.00	Class B or C or Non-Attainment	1.00

**Model Variables**

01 Total Abundance of Individuals	1538.67	18 Relative Abundance - Ephemeroptera	0.13
02 Generic Richness	14.00	19 EPT Generic Richness	7.00
03 Plecoptera Abundance	0.00	21 Sum of Abundances: <i>Dicrotendipes,</i>	0.00
04 Ephemeroptera Abundance	205.33	<i>Micropsectra, Parachironomus, Helobdella</i>	
05 Shannon - Wiener Diversity	1.84	23 Relative Generic Richness- Plecoptera	0.00
06 Hilsenhoff Biotic Index	4.01	25 Sum of Abundances: <i>Cheumatopsyche,</i>	214.12
07 Relative Abundance - Chironomidae	0.00	<i>Cricotopus, Tanytarsus, Ablabesmyia</i>	
08 Relative Generic Richness - Diptera	0.36	26 Sum of Abundances: <i>Acroneuria, Stenonema</i>	54.67
09 <i>Hydropsyche</i> Abundance	980.54	28 EP Generic Richness/14	0.21
11 <i>Cheumatopsyche</i> Abundance	214.12	30 Presence of Class A Indicator Taxa/7	0.00
12 EPT Generic Richness/ Diptera Generic Richness	1.40		

**Five Most Dominant Taxa**

	Taxa Rank	Taxa Name	Percent
13 Relative Abundance - Oligochaeta	1	Hydropsyche	63.73
15 Perlidae Abundance (Family Functional Group)	2	Cheumatopsyche	13.92
16 Tanypodinae Abundance (Family Functional Group)	3	Baetis	6.93
17 Chironomini Abundance (Family Functional Group)	4	Chimarra	5.89
	5	Stenonema	3.55

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Station Number	S78	Waterbody: Thompson Lake Outlet	Date Deployed: 24-JUL-03
Log Number:	1251	Town: OXFORD	Date Retrieved: 21-AUG-03

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**Sample Collection and Processing Information**

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Sampling Organization:  
Taxonomist: Lotic

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**Waterbody Information**

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Water Temperature:	24.9 °C	Specific Conductance	65.0 uS/cm	Channel Width:	8.0 m
Velocity:	38 cm/s	Dissolved Oxygen:	7.8 ppm	Channel Depth:	70.0 cm

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**Summary of Habitat Characteristics**

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<u>Landuse Name</u>	<u>Canopy Cover</u>	<u>Stressor</u>	<u>Location</u>
Upland Hardwood	Partly Open		Below Point Source

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**Substrate**

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Boulder	Rubble	Gravel	Sand
50%	35%	10%	5%

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**Comments about the Station or Sample**

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SAME AS LOG 1363  
8/21/03 Data:  
F: 35cm/s; D: 63cm; T: 27.1C; SPC: 62uS/cm; DO: -; pH:7.26

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**Comments about the Final Determination**

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Model Indeterminate because Richness 14. Lake Outlet increased filter feeders so sample was subsampled. If whole sample was processed Richness would meet minimum of 15.

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**Log Number:** 1251      **Subsample:** X4      **Replicates:** 3      **Calculated:**

**BioME Aquatic Life Taxonomic Inventory Report**

Taxa	Code	Count (Average of Baskets)		Biotic Index Value	Functional Feeding Group	Relative Abundance	
		Actual	Adjusted			Actual	Adjusted
<i>Baetis</i>	09020401001	65.33	106.67	4	CG	4.2	6.9
<i>Baetis flavistriga</i>	09020401001004	41.33	0.00		--	2.7	0.0
<i>Acentrella</i>	09020401008	0.00	44.00	3	CG	0.0	2.9
<i>Acentrella ampla</i>	09020401008001	44.00	0.00		--	2.9	0.0
<i>Stenonema</i>	09020402015	0.00	54.67	4	SC	0.0	3.6
<i>Stenonema modestum</i>	09020402015051	54.67	0.00		--	3.6	0.0
<i>Chimarra</i>	09020601003	90.67	90.67	2	CF	5.9	5.9
<i>Hydropsychidae</i>	09020604	116.00	0.00		--	7.5	0.0
<i>Cheumatopsyche</i>	09020604015	193.33	214.12	5	CF	12.6	13.9
<i>Hydropsyche</i>	09020604016	885.33	980.54	4	CF	57.5	63.7
<i>Oecetis</i>	09020618078	4.00	4.00	8	PR	0.3	0.3
<i>Rheocricotopus</i>	09021011057	1.33	1.33	6	CG	0.1	0.1
<i>Tvetenia</i>	09021011065	0.00	1.33	5	CG	0.0	0.1
<i>Tvetenia vitracies</i>	09021011065113	1.33	0.00		--	0.1	0.0
<i>Paratanytarsus</i>	09021011071	1.33	1.33	6	--	0.1	0.1
<i>Polypedilum</i>	09021011102	1.33	1.33	6	SH	0.1	0.1
<i>Simulium</i>	09021012047	34.67	34.67	4	CF	2.3	2.3
<i>Physidae</i>	10010202	1.33	1.33		SC	0.1	0.1
<i>Ancylidae</i>	10010204	2.67	2.67		SC	0.2	0.2