



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

Station Information

Station Number: S-743
Waterbody: Unnamed (skanky) Stream (presque Isle) - Station 743
Town: Presque Isle
Directions: ~70 M DOWNSTREAM OF AIRPORT RD

DEP Drainage: St. John
HUC8: 01010004
HUC8 Name: Aroostook River
Latitude: 46 41 26.86 N
Longitude: 68 2 23.93 W
Stream Order: 1

Sample Information

Log Number: 1855
Subsample Factor: X1
Type of Sample: ROCK BAG
Replicates: 3
Date Deployed: 7/22/2009
Date Retrieved: 8/19/2009

Classification Attainment

Statutory Class: B
Model Result with P>.6: B
Date Last Calculated: 4/12/2010
Final Determination: B
Reason for Determination: Model
Comments:

Model Probabilities

First Stage Model		C or Better Model	
Class A	0.57	Class A, B, or C	1.00
Class B	0.38	Non-Attainment	0.00
Class C			
NA			
0.00			
B or Better Model		A Model	
Class A or B	0.98	Class A	0.36
Class C or Non-Attainment	0.02	Class B or C or Non-Attainment	0.64

Model Variables

01 Total Mean Abundance	147.33	18 Relative Abundance Ephemeroptera	0.17
02 Generic Richness	43.00	19 EPT Generic Richness	14.00
03 Plecoptera Mean Abundance	2.00	21 Sum of Abundances: <i>Dicrotendipes</i> , <i>Micropsectra</i> , <i>Parachironomus</i> , <i>Helobdella</i>	31.93
04 Ephemeroptera Mean Abundance	25.33	23 Relative Generic Richness- Plecoptera	0.05
05 Shannon-Wiener Generic Diversity	4.11	25 Sum of Abundances: <i>Cheumatopsyche</i> , <i>Cricotopus</i> , <i>Tanytarsus</i> , <i>Ablabesmyia</i>	2.65
06 Hilsenhoff Biotic Index	4.66	26 Sum of Abundances: <i>Acroneuria</i> , <i>Maccaffertium</i> , <i>Stenonema</i>	0.00
07 Relative Abundance - Chironomidae	0.47	28 EP Generic Richness/14	0.29
08 Relative Generic Richness Diptera	0.47	30 Presence of Class A Indicator Taxa/7	0.00
09 <i>Hydropsyche</i> Abundance	1.33		
11 <i>Cheumatopsyche</i> Abundance	0.44		
12 EPT Generic Richness/ Diptera	0.70		
Generic Richness			
13 Relative Abundance - Oligochaeta	0.00		
15 Perlidae Mean Abundance	0.00		
(Family Functional Group)			
16 Tanypodinae Mean Abundance	12.85		
(Family Functional Group)			
17 Chironomini Abundance (Family	3.30		
Functional Group)			

Five Most Dominant Taxa

Rank	Taxon Name	Percent
1	<i>Micropsectra</i>	21.67
2	<i>Baetis</i>	16.97
3	<i>Parametriocnemus</i>	7.47
4	<i>Psychoglypha</i>	7.47
5	<i>Optioservus</i>	5.66



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Date Retrieved: 8/19/2009

Sample Collection and Processing Information

Sampling Organization: BIOMONITORING UNIT

Taxonomist: MICHAEL WINNELL

Waterbody Information - Deployment

Temperature: 15.8 deg C
Dissolved Oxygen: 8.2 mg/l
Specific Conductance: 455 uS/cm
Velocity: 28 cm/s
pH: 7.96
Wetted Width: 1.8 m
Bankfull Width: 1.8 m
Depth: 20 cm

Waterbody Information - Retrieval

Temperature: 17.1 deg C
Dissolved Oxygen: 8.6 mg/l
Specific Conductance: 756 uS/cm
Velocity: 32 cm/s
pH: 8.01
Wetted Width: 1.8 m
Bankfull Width: 1.8 m
Depth: 14 cm

Water Chemistry - 7/22/2009

Soluble Reactive Phosphorus	16 ug/l	Nitrate+nitrite As N	0.23 mg/l
Total Phosphorus	0.038 mg/l	Total Kjeldahl Nitrogen	0.3 mg/l
Dissolved Organic Carbon	4.6 mg/l	Total Alkalinity	186 mg/l

Summary of Habitat Characteristics

Landuse Name

Cultivated

Upland Hardwood

Urban

Canopy Cover

Dense

Terrain

Flat

Potential Stressor

Agricultural Runoff

Location

Below Agriculture NPS

Below Airport

Substrate

Boulder 30 %

Gravel 30 %

Rubble/Cobble 30 %

Sand 10 %

Landcover Summary - 2004 Data

Total Area (ac)	355	High Int. Dev. %	25.1	Water %	0.0	Non-vegetated %	0.0
		Med Int. Dev. %	11.4	Wetland %	8.2	Tilled Agriculture %	1.6
		Low Int. Dev. %	11.0	Upland Woody %	0.8	Grassland %	0.9
		Development %	47.5	Natural %	9.0	Human Altered %	91.0
						Impervious %	29.4

Sample Comments

CHANNELIZED.



**Maine Department of Environmental Protection
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Aquatic Life Taxonomic Inventory Report**

Station Number: S-743 Waterbody: Unnamed (skanky) Stream (presque Isle) - St Town: Presque Isle
Log Number: 1855 Subsample Factor: X1 Replicates: 3 Calculated: 4/12/2010

Taxon	Maine Taxonomic Code	Count (Mean of Samplers)		Hilsenhoff Biotic Index	Functional Feeding Group	Relative Abundance	
		Actual	Adjusted			Actual	Adjusted
Naididae	08020202	0.33	0.33		--	0.2	0.2
Lumbricidae	08020205	0.33	0.33		--	0.2	0.2
Nemouridae	09020201	1.00	1.00		--	0.7	0.7
Perlodidae	09020207	1.00	1.00		--	0.7	0.7
<i>Baetis</i>	09020401001		25.00	4	CG		17.0
<i>Baetis brunneicolor</i>	09020401001003	25.00			--	17.0	
<i>Ephemerella</i>	09020410035	0.33	0.33	1	CG	0.2	0.2
<i>Dolophilodes</i>	09020601001	0.33	0.33	0	CF	0.2	0.2
<i>Chimarra</i>	09020601003	0.33	0.33	2	CF	0.2	0.2
<i>Neureclipsis</i>	09020603008	0.33	0.33	7	CF	0.2	0.2
Hydropsychidae	09020604	0.67			--	0.5	
<i>Diplectrona</i>	09020604014		0.89	0	CF		0.6
<i>Diplectrona modesta</i>	09020604014025	0.67			--	0.5	
<i>Cheumatopsyche</i>	09020604015	0.33	0.44	5	CF	0.2	0.3
<i>Hydropsyche</i>	09020604016	0.67	1.33	4	CF	0.5	0.9
<i>Hydropsyche slossonae</i>	09020604016031	0.33			--	0.2	
<i>Hydroptila</i>	09020607026	1.33	1.33	6	P	0.9	0.9
<i>Ptilostomis</i>	09020608041	0.33	0.33	5	SH	0.2	0.2
<i>Limnephilus</i>	09020610055	5.67	5.67	3	SH	3.8	3.8
<i>Psychoglypha</i>	09020610060		11.00	0	SH		7.5
<i>Psychoglypha subborealis</i>	09020610060120	11.00			--	7.5	
<i>Sialis</i>	09020702004	1.33	1.33	4	PR	0.9	0.9
<i>Antocha</i>	09021001004	1.33	1.33	3	CG	0.9	0.9
Chironomidae	09021011	6.33			--	4.3	
<i>Conchapelopia</i>	09021011004	3.00	3.30	6	PR	2.0	2.2
<i>Meropelopia</i>	09021011010	1.00	1.10		--	0.7	0.7
<i>Paramerina</i>	09021011013	5.67	6.24		--	3.8	4.2
<i>Trissopelopia</i>	09021011021		0.37		PR		0.2
<i>Trissopelopia ogemawi</i>	09021011021042	0.33			--	0.2	
<i>Zavrelimyia</i>	09021011022		1.84	8	PR		1.2
<i>Zavrelimyia thryptica group</i>	09021011022045	1.67			PR	1.1	
<i>Prodiamesa</i>	09021011031		0.37	3	CG		0.2
<i>Prodiamesa olivacea</i>	09021011031048	0.33			--	0.2	
<i>Brillia</i>	09021011033		0.37	5	SH		0.2
<i>Brillia parva</i>	09021011033050	0.33			--	0.2	
<i>Heterotrissocladius</i>	09021011044		0.37	0	CG		0.2
<i>Heterotrissocladius marcidus</i>	09021011044083	0.33			--	0.2	
<i>Parakiefferiella</i>	09021011052	0.33	0.37		CG	0.2	0.2



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<i>Parametriocnemus</i>	09021011053	8.33	11.01	5	CG	5.7	7.5
<i>Parametriocnemus sp. F Epler</i>	09021011053101	1.67			--	1.1	
<i>Thienemanniella</i>	09021011062		2.20	6	CG		1.5
<i>Thienemanniella boltoni</i>	09021011062113	2.00			--	1.4	
<i>Tvetenia</i>	09021011065		2.57	5	CG		1.7
<i>Tvetenia paucunca</i>	09021011065114	2.33			--	1.6	
<i>Micropsectra</i>	09021011070	29.00	31.93	7	CG	19.7	21.7
<i>Rheotanytarsus</i>	09021011072	1.33	1.47	6	CF	0.9	1.0
<i>Tanytarsus</i>	09021011076	2.00	2.20	6	CF	1.4	1.5
<i>Microtendipes</i>	09021011094		0.37	6	CF		0.2
<i>Microtendipes pedellus group</i>	09021011094166	0.33			--	0.2	
<i>Paratendipes</i>	09021011100	0.33	0.37	8	CG	0.2	0.2
<i>Polypedilum</i>	09021011102		2.57	6	SH		1.7
<i>Polypedilum flavum</i>	09021011102182	0.33			--	0.2	
<i>Polypedilum albicorne</i>	09021011102195	2.00			--	1.4	
<i>Macropelopia decedens</i>	09021011111002				--		
<i>Simulium</i>	09021012047		1.00	4	CF		0.7
<i>Simulium (Eusimulium)</i>	09021012047052	0.33			--	0.2	
<i>Simulium tuberosum</i>	09021012047067	0.67			--	0.5	
<i>Haliphus</i>	09021101001	0.33	0.33		P	0.2	0.2
<i>Optioservus</i>	09021113067	7.33	8.33	3	SC	5.0	5.7
<i>Optioservus fastiditus</i>	09021113067044	1.00			--	0.7	
<i>Physa</i>	10010202026	7.33	7.33		SC	5.0	5.0
<i>Gyraulus</i>	10010203029	2.33	2.33		SC	1.6	1.6
<i>Sphaeriidae</i>	10020201	2.67	2.67		CF	1.8	1.8
<i>Pisidium</i>	10020201002		3.67		CF		2.5
<i>Pisidium walkeri</i>	10020201002017	3.67			CF	2.5	