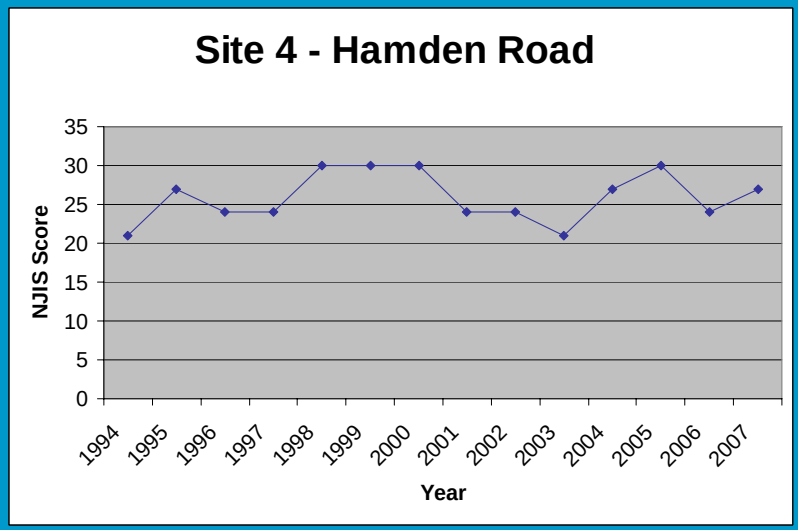
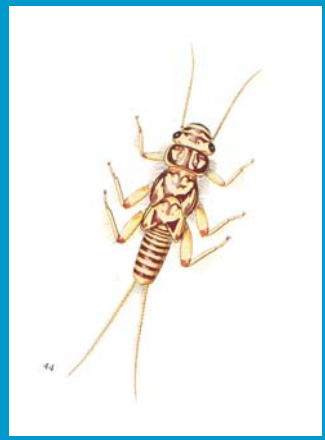
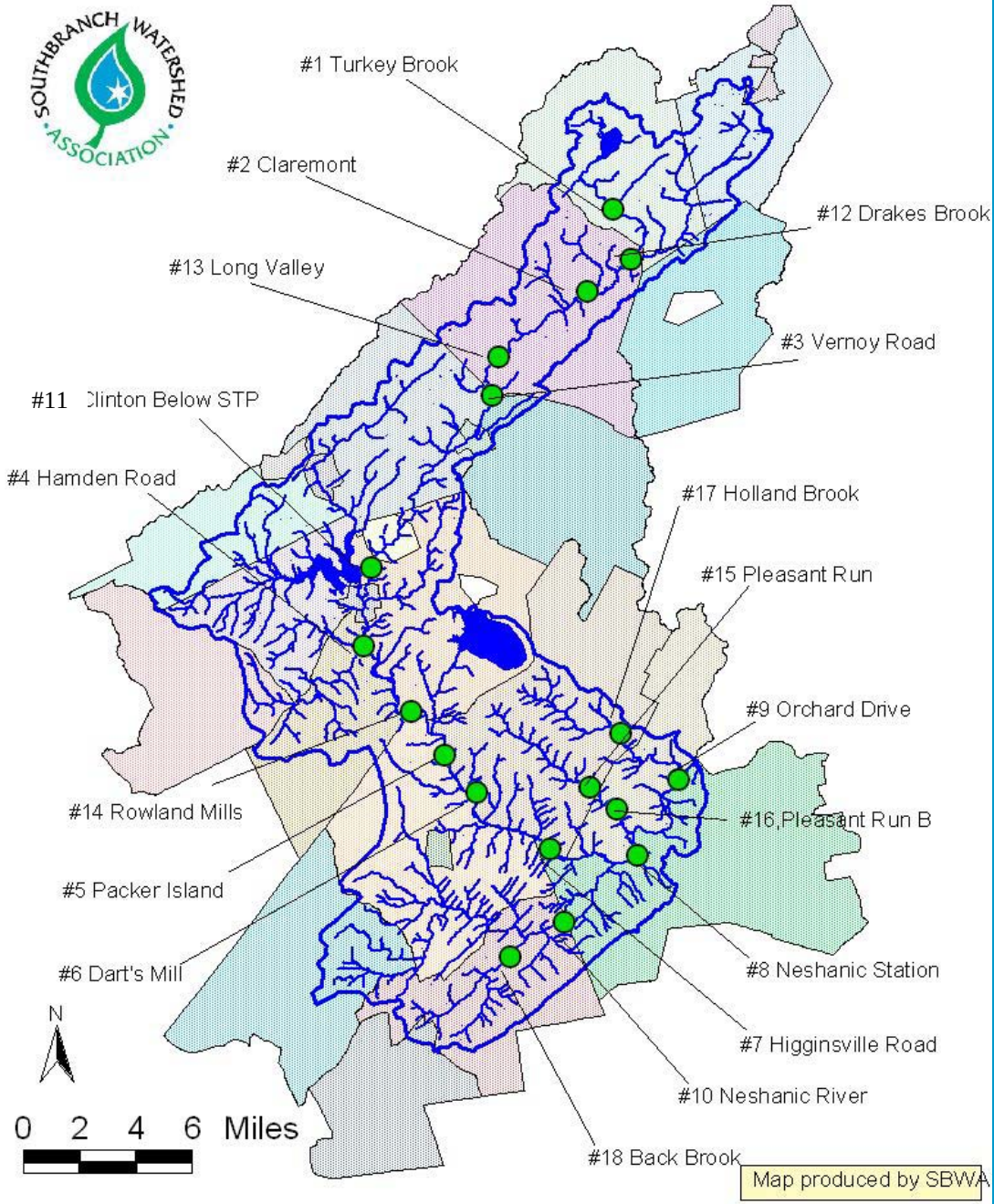
SBWA Volunteer Monitoring Program





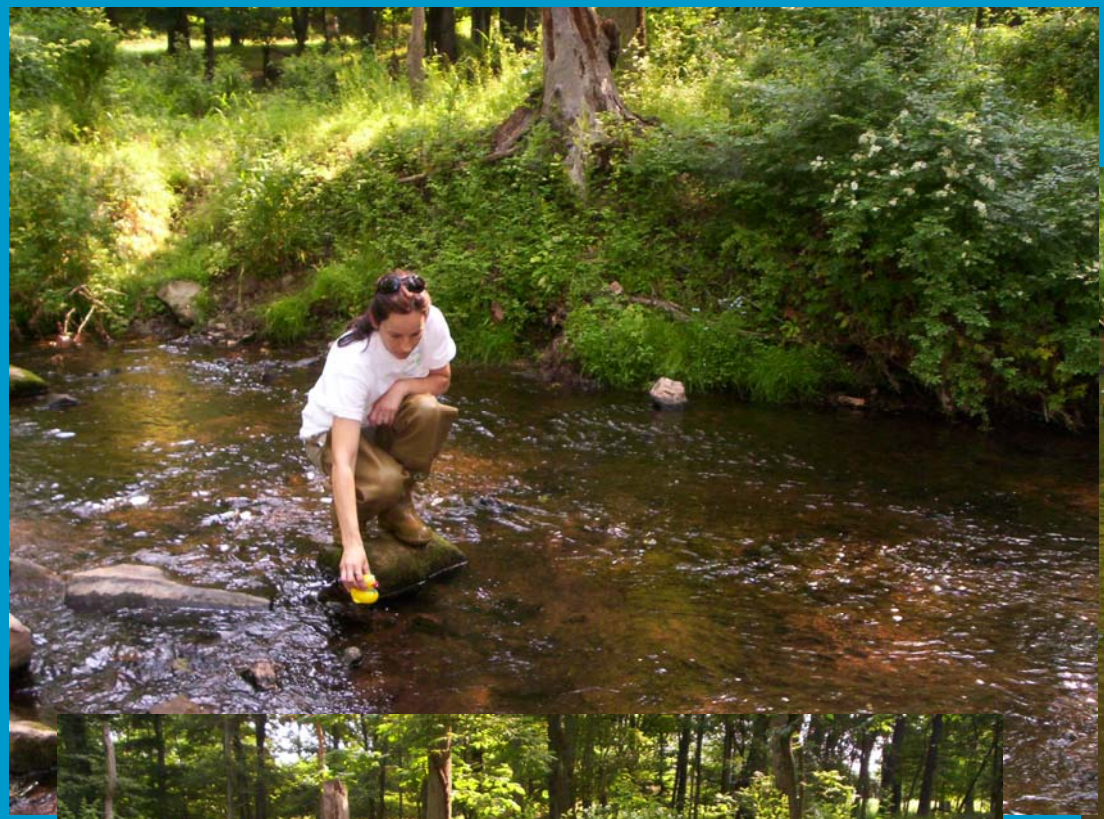
WATERSHED
ASSOCIATION

SBWA Volunteer Monitoring



KIT 3

SBWA



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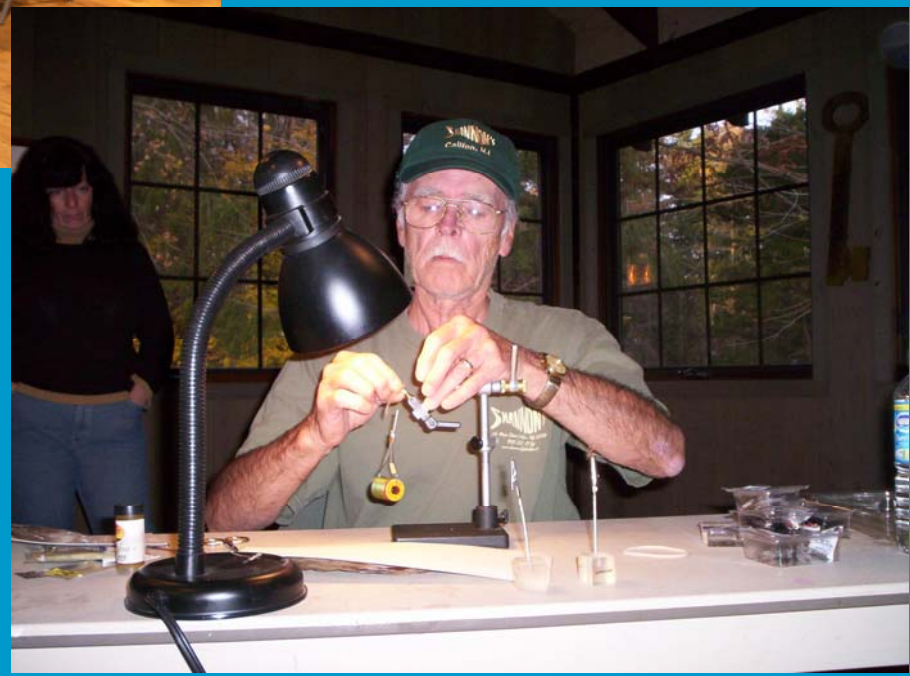
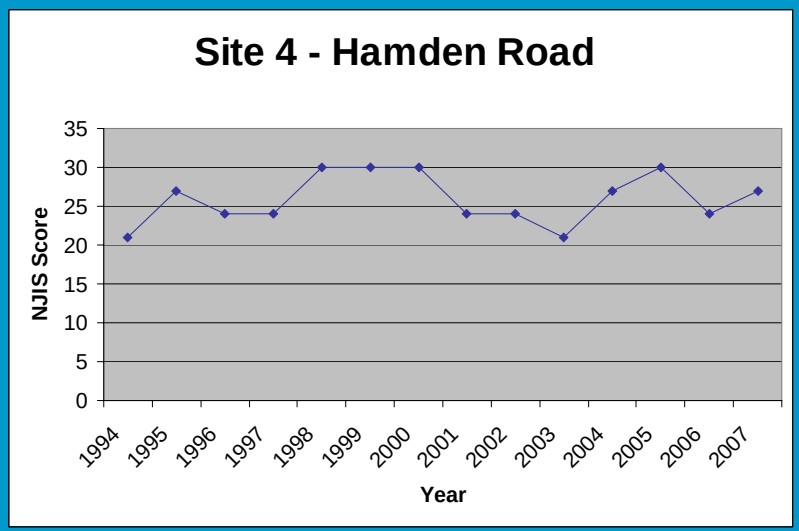
Benthic Macroinvertebrates collected from the South Branch Raritan River Basin by the South Branch Watershed Association.

Location:	**Site # 1 (Turkey Brook)**							
Sample Date:	9 July 2007							
Sample Type:	Travelling Kick (US EPA RBP III: 100-specimen subsample)							
Taxon	Tolerance Index (family)	Tolerance Index (genus/sp.)	Common Name	Number of Individuals (family)	Number of Individuals (genus/sp.)	Percent Abundance (family)	prod fam	prod gen/sp
Ephemeroptera							0	0
Baetidae	4			2		1.9%	8	0
Baetis sp.		6	mayfly		2		0	12
Ephemerellidae	1			6		5.6%	6	0
Serratella sp.		2	mayfly		6		0	12
Heptageniidae	4			2		1.9%	8	0
Stenonema sp.		3	mayfly		2		0	6
Odonata							0	0
Gomphidae	1			2		1.9%	2	0
Stylogomphus albistylus		5	dragonfly		2		0	10
Plecoptera							0	0
Leuctridae	0			13		12.0%	0	0
Leuctra sp.		0	stonefly		13		0	0
Perlodidae	2			7		6.5%	14	0
Cultus sp. (tent.)		2	stonefly		7		0	14
Perlidae	1			1		0.9%	1	0
Acroneuria sp.		0	stonefly		1		0	0
Megaloptera							0	0
Corydalidae	5			10		9.3%	50	0
Nigronia serricornis		0	alderfly		10		0	0
Trichoptera							0	0
Brachycentridae	1			1		0.9%	1	0
Micrasema sp.		2	caddisfly		1		0	2
Hydropsychidae	4			23		21.3%	92	0
Cheumatopsyche sp.		5	caddisfly		15		0	75
Hydropsyche betteni		6	caddisfly		3		0	18
Hydropsyche bronta		6	caddisfly		4		0	24
Hydropsyche morosa		6	caddisfly		1		0	6
Leptoceridae	4			1		0.9%	4	0
Oecetis sp,		5	caddisfly		1		0	5
Polycentropodidae	6			2		1.9%	12	0
Polycentropus sp.		6	caddisfly		2		0	12
Coleoptera							0	0
Elmidae	4			22		20.4%	88	0
Macronychus glabratus		5	riffle beetle		1		0	5
Optioservus sp.		4	riffle beetle		6		0	24
Oulimnius latiusculus		4	riffle beetle		5		0	20
Stenelmis crenata gr.		5	riffle beetle		10		0	50
Psephenidae	4			2		1.9%	8	0
Psephenus herricki		4	riffle beetle		2		0	8
Diptera							0	0
Chironomidae	6			11		10.2%	66	0
Cricotopus/Orthocladius sp.		6	midge		1		0	6
Microtendipes pedellus gr.		6	midge		1		0	6
Polypedilum flavum		6	midge		3		0	18
Rheotanytarsus sp.		6	midge		3		0	18
Tanytarsus sp.		6	midge		2		0	12
Tvetenia bavarica		5	midge		1		0	5
Tipulidae	3			3		2.8%	9	0
Antocha sp.		3	crane fly		1		0	3
Hexatoma sp.		2	crane fly		1		0	2
Tipula sp.		4	crane fly		1		0	4
Total Taxa					29			




Site 4 - Hamden Road
NJIS Score
35
30
25
20
15
10
5
0
1994
1995
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
Year

South Branch Water Association Map - Microsoft Internet Explorer

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South Branch Watershed Association

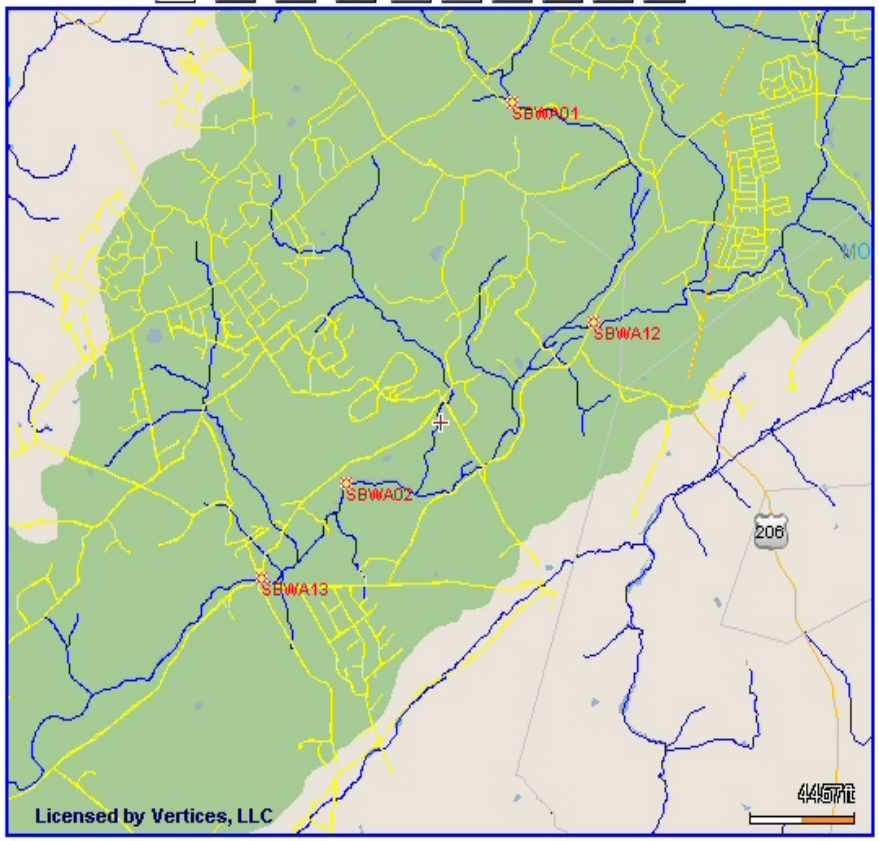
The River Monitor

Layers

- Sample Points
- Highway
- Street
- Stream
- Lake
- South Branch Watershed
- Counties
- Municipalities

Thematic Maps

=== Land Use/Land Cover ===



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South Branch Raritan River

12-Year Trend (1994-2005) in Water Quality Using Macroinvertebrate Data

Prepared for :
Jim Kurtenbach,
U.S. EPA Region 2
Contract 68-C-04-006, TDA 3-15

Prepared By:
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June 2007

EPA 2007 Environmental Quality Award

-Non-profit Category

ANJEC 2007 Environmental Achievement Award

- Honorable Mention

NJ 2007 Governor's Environmental Excellence Award

- Clean and Plentiful Water Category

Thank you!!!!

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