



CT DEEP
Riffle
Bioassessment
by Volunteers
Program

2017-2018 RBV
Program
Annual Summary
Report

(Report #19/20)

www.ct.gov/deep/rbv

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Above Left: Volunteers with the Vernon Conservation Commission’s Local RBV program monitor Rickenback Brook in Vernon, CT; **Above Right:** Three Rivers Community College students sort a sample from Ransom Brook.

Front Cover Photos:

Top Left: Burnham Brook in East Haddam, CT. (Photo courtesy of Three River Community College)

Top Center: A TRCC student prepares a voucher. (Photo courtesy of Three River Community College)

Top Right: A giant stonefly in a volunteer’s hand. (Photo courtesy of the Salmon River Watershed Partnership)

Middle Left: Salmon River Watershed Partnership Volunteers collect a sample from Dickinson Creek. (SRWP Photo).

Bottom Left: Three Rivers Community College students and professor Diba Khan-Bureau pose at an RBV monitoring event. (Photo courtesy of Three River Community College)

Rear Cover Photo: RBV volunteers sample Burnham Brook in East Haddam, CT. (Photo courtesy of Three River Community College)

An Introduction to RBV: The Treasure Hunt for CT's Healthiest Streams!

The CT DEEP Riffle Bioassessment by Volunteers or "RBV" Program is an annual fall 'treasure hunt' for Connecticut's healthiest streams. CT DEEP uses the data collected by RBV volunteers to expand its inventory of excellent small, high gradient Connecticut streams that have excellent water quality – our "Healthy Streams" list.

RBV volunteers examine the water quality of local stream segments by studying the aquatic benthic macroinvertebrate community present in rocky or 'riffle' areas of these streams. If volunteers can find four or more pollution sensitive or 'most wanted' macroinvertebrates, CT DEEP can use this data to assess that stream as fully supporting water quality standards for aquatic life use – documenting it as one of CT's healthiest streams! (Because it is a screening approach and not a more in-depth assessment methodology, RBV cannot provide a detailed water quality assessment nor can it be used to identify low or impaired water quality.)

To learn more contact:

Meghan Lally
State RBV Program Coordinator
DEEP.RBVProgram@ct.gov
860-424-3061

www.ct.gov/deep/rbv



Above: Railroad Brook in Bolton, CT. (Photo courtesy Bolton Conservation Commission.)

2017-2018 Local RBV Program Leaders

Local RBV Program Leaders ensure that the RBV program is a success each year. These individuals put countless hours into organizing their programs, coordinating with DEEP, recruiting and training volunteers, and more. Thank you to the following individuals for serving as local leaders in 2017 & 2018!

Chris Brittain (WAMOGO High School)

Doreen Carroll-Andrews (Town of Greenwich
Inland Wetlands & Watercourses Agency)

Sarah Cocco (Town of Greenwich
Conservation Commission)

Tom Fahsbender (Washington Montessori
School, Steep Rock Association)

Carol Haskins (Pomperaug River Watershed
Coalition)

Penny Howell (East Lyme Conservation
Commission)

Diba Khan-Bureau (Three Rivers Community
College)

Tom Ouellette (Vernon Conservation
Commission)

Rod Parlee (Bolton Conservation Commission)

Alisa Phillips-Griggs (Farmington River
Watershed Association)

Jean Pillo (The Last Green Valley, Eastern
Connecticut Conservation District)

Judy Rondeau (Niantic River Watershed
Committee)

Pat Young (Salmon River Watershed
Partnership; Eightmile River Watershed Wild
& Scenic Partnership)

Thank You Volunteers!

2018 marked the 20th anniversary of the Riffle Bioassessment by Volunteers (RBV) program. Over the past two decades hundreds if not thousands of RBV volunteers have participated in the program. Our program would not be possible without the volunteers that actually head out into the streams each year to collect RBV samples – thank you to each of you!



*Nichols College students participated in the Last Green Valley Association's local RBV Program in 2017.
(Photo courtesy of The Last Green Valley)*

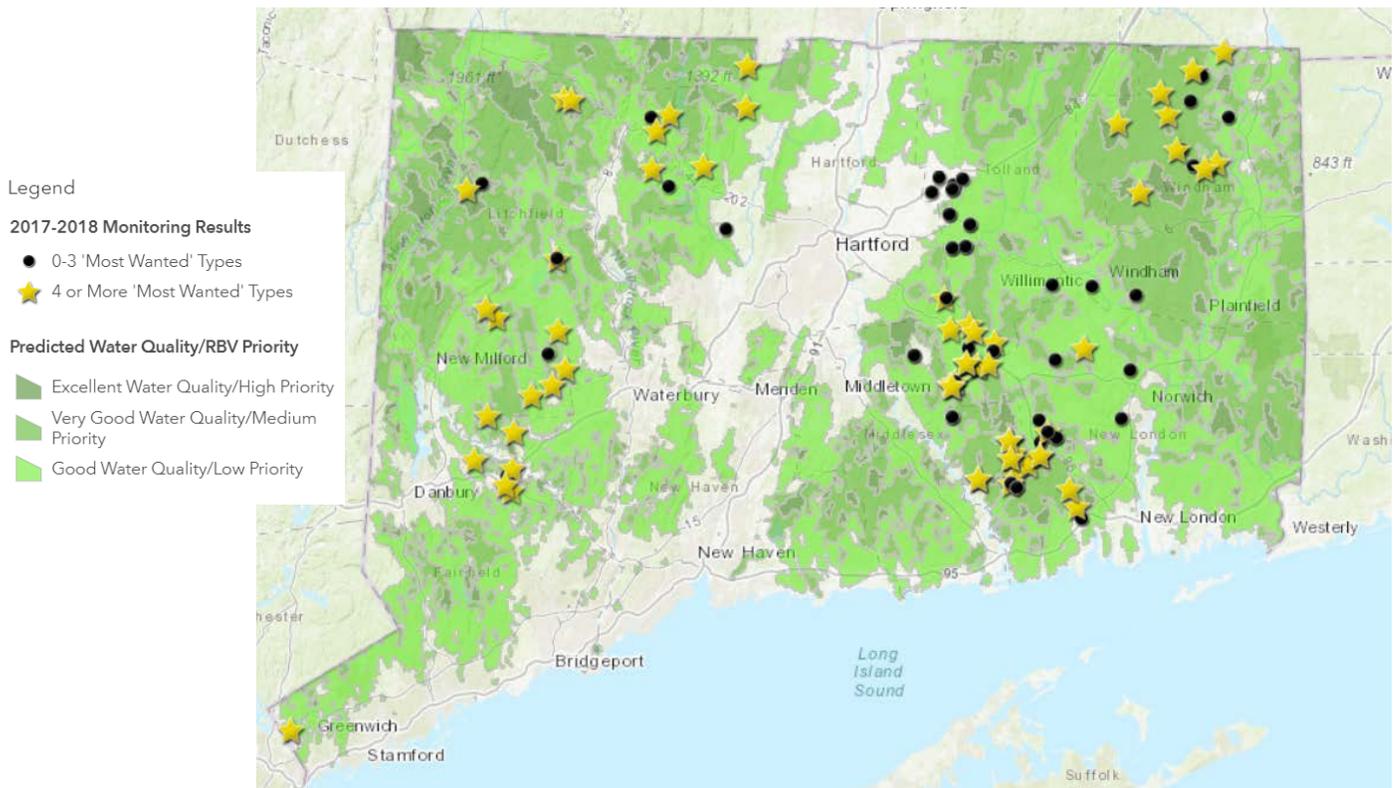
2017/2018 Executive Summary



	2013	2014	2015	2016	2017	2018
Total # of RBV Samples	140	94	68	70	78	55
# of '4 or More' Samples	33	37	21	21	43	23
% Total '4 or More' Samples	24%	39%	31%	30%	55%	42%
# Stations Monitored	137	92	68	61	74	45
# Waterbodies Monitored	92	78	54	55	61	43

The 2017 and 2018 field seasons were challenging for RBV monitors, resulting in fewer submissions than normal. In 2017, September very low flows quickly turned into high flows due to heavy October rains. September 2018 started off promising, but the fall quickly turned wet and stayed wet! High flows cancelled the monitoring efforts of twelve local programs that normally participate in the program. Nevertheless, through hard work and dedication, RBV volunteers once again succeeded in their efforts to find high quality waters at almost half of the stations visited.

- **133 vouchers** were collected; **66 of these vouchers (49.6%) contained 4 or more RBV 'most wanted' taxa**, indicating that these stream segments are among Connecticut's healthiest streams!
- **97 stations** were monitored, including **19 new stations and 5 new waterbodies** not previously monitored by DEEP. Stations spanned **84 waterbodies** located in **33 towns**.
- **17 Local RBV Programs coordinated programs in their area**, approximately **350 volunteers** from these groups and local partner organizations participated in the program.



Participation Summary

In 2017 & 2018, seventeen (17) Local RBV Programs contributed data to the State. Local RBV Programs consisted of partnerships between a variety of groups and organizations, including, river and watershed associations, local conservation commissions and agencies, environmental conservation groups, and educational institutions.

River and Watershed-Based Organizations:

- Eightmile River Wild & Scenic Coordinating Committee
- Farmington River Watershed Association
- Friends of the Lake
- Housatonic Valley Association
- Niantic River Watershed Committee
- Pomperaug River Watershed Coalition
- Salmon River Watershed Partnership
- The Last Green Valley

Corporate Partners:

- GZA Environmental, Inc.

Environmental Conservation Groups:

- Eastern CT Conservation District
- East Haddam Land Trust
- Salem Land Trust
- The Nature Conservancy
- Trout Unlimited – Candlewood Valley Chapter

Municipal Groups:

- Bolton Conservation Commission
- East Lyme Commission for the Conservation of Natural Resources
- Town of Greenwich Inland Wetlands & Watercourses Agency
- Town of Greenwich Conservation Commission
- Vernon Conservation Commission

Education-Based Partners:

- Cherry Brook Primary School
- East Hampton High School Environmental Science Club
- Nichols College
- RHAM High School
- Three Rivers Community College
- UConn Herpetology Club
- UConn Natural Resource Conservation Academy
- WAMOGO Regional High School
- Washington Montessori School
- Woodstock Academy

RBV monitoring locations spanned a total of 33 Connecticut towns including:

- | | | | | |
|---------------|----------------|----------------|-------------|--------------|
| • ASHFORD | • CORNWALL | • LEBANON | • NORWICH | • VERNON |
| • AVON | • EAST HADDAM | • LITCHFIELD | • POMFRET | • WASHINGTON |
| • BARKHAMSTED | • EAST HAMPTON | • LYME | • ROXBURY | • WINDHAM |
| • BETHLEHEM | • EAST LYME | • MARLBOROUGH | • SALEM | • WOODBURY |
| • BOLTON | • GRANBY | • NEW HARTFORD | • SCOTLAND | • WOODSTOCK |
| • CHAPLIN | • GREENWICH | • NEWTOWN | • SOUTHBURY | |
| • COLCHESTER | • HEBRON | • NORFOLK | • THOMPSON | |

Monitoring Results

2017 and 2018 marked the 19th and 20th years volunteer monitoring groups collected and submitted vouchers to DEEP under the RBV program. 20 years – wow! An estimated 400 volunteers participated in the program during this time. **Together, volunteers collected 133 vouchers from 97 unique locations on 81 different waterbodies. The distribution of most wanted types in the samples ranged from 0 to 8, with total taxa types in the vouchers ranging from 1 to 23.**

Table 1. 5-Year Annual RBV Program Monitoring Location Statistics 2013-2018

	2013	2014	2015	2016	2017	2018
RBV Samples Submitted	140	94	68	70	78	55
# Monitoring Stations (Appendix B)	137	92	68	61	74	45
# Streams Monitored	92	78	54	55	61	43
# Samples w/ 4+ "Most Wanted" Types	33 (24%)	37 (39%)	21 (31%)	21 (30%)	43 (55%)	23 (42%)

Sixty-six (66) of the 2017 & 2018 monitoring sites had 4 or more types in the ‘Most Wanted’ category, indicating that these stream segments are among Connecticut’s healthiest streams. Detailed results for the RBV Program (i.e. voucher contents) are shown in Table 2.



Jean Pillo (left), longtime Local RBV Program Coordinator for The Last Green Valley poses with RBV volunteers along Cemetery Brook. (Photo courtesy of TLGV.)

2017 & 2018 RBV Results Map. The number of 'Most Wanted' macroinvertebrate types present in 2017 & 2018 RBV voucher samples. Sites are considered to be 'healthy' if 4 or more 'Most Wanted' macroinvertebrate taxa were present (yellow stars).

To view this map in interactive form, visit www.ct.gov/deep/rbvstorymap.

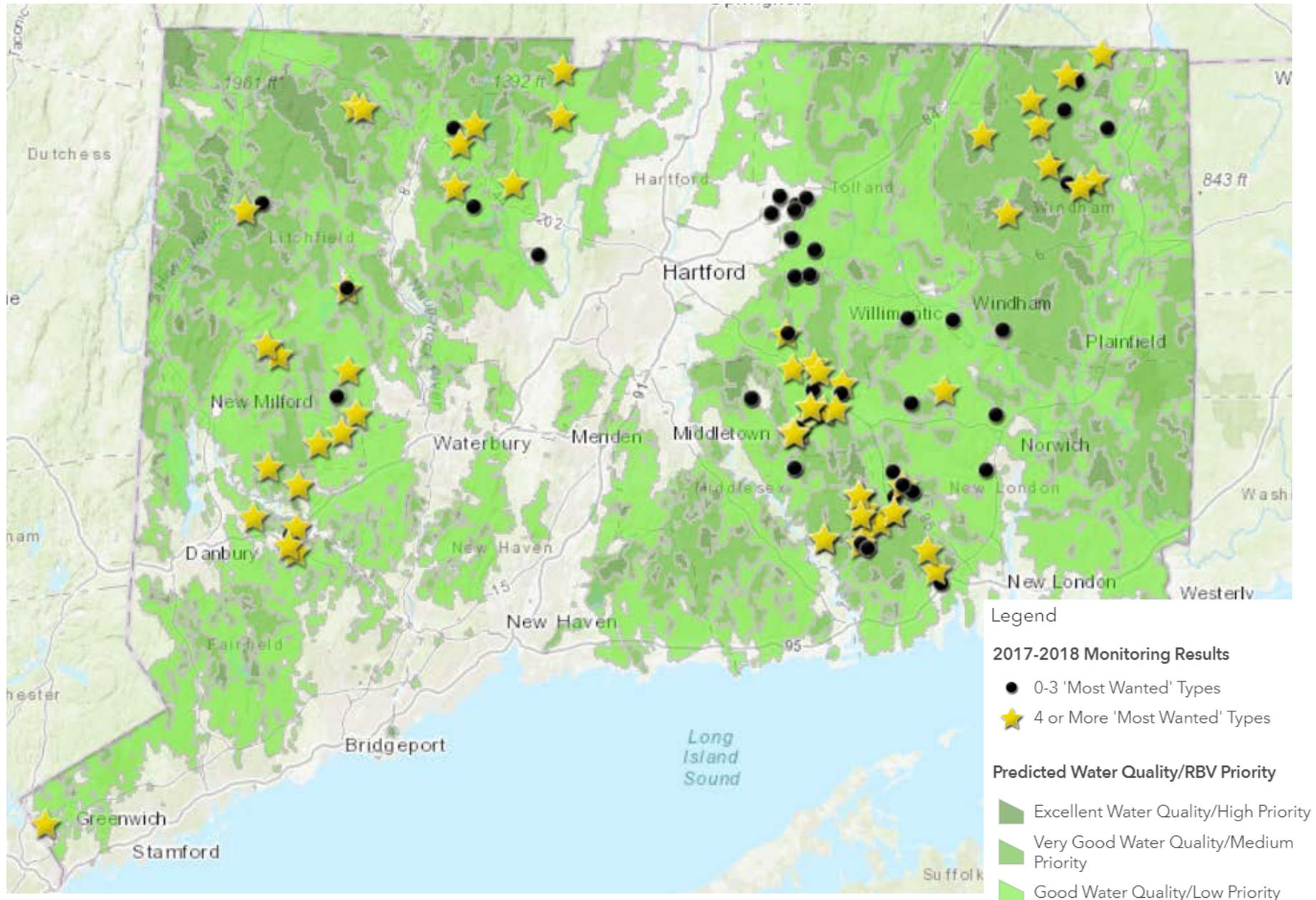


Table 2. Detailed RBV Station Results. Table 2 provides a list of stations monitored with RBV in 2017 & 2018 and the contents of the corresponding voucher submitted to DEEP for analysis. The samples are sorted by stream name and then station number. Column numbers corresponds to the RBV macroinvertebrate organism ID number (noted on the RBV program materials). Stations at which four or more 'Most Wanted' RBV taxa types were present in the voucher are emphasized in bold and italicized font. Additional station details can be found in Appendix B.

Station #	Waterbody Name	Town	Date	Most Wanted Taxa										Moderately Wanted Taxa						Least Wanted Taxa						Other Taxa	GRAND TOTAL Taxa Count					
				1	2	3	4	5A	5B	5C	6A	6B	7	8A	8B	TOTAL Most Wanted	9	10	11	12	13	14A	14B	15	16			17	18	19	20	21
16468	ABINGTON BROOK	POMFRET	10/31/2018					1		2					3	1	1	1	1	1	1								1		6	17
18821	Baker Brook NNT	BOLTON	11/5 /2017											0	1				1										1	4	7	
18821	Baker Brook NNT	BOLTON	11/4 /2018											0	1	1	1													2	5	
15138	Bantam River	LITCHFIELD	10/17/2017		1			1						2	1	1	1	1	1	1								1	1	10		
15138	Bantam River	LITCHFIELD	11/19/2018		1			1						2	1			1	1									1		6		
17567	Bartlett Brook	LEBANON	10/11/2017		1		1	1						3	1		1	1	1	2	1				1				5	16		
15312	Beaver Brook	LYME	10/13/2017		1			1						2	1	1	1		1	2	1	1							2	13		
15312	Beaver Brook	LYME	10/19/2018		1			1					1	3		1		1	1	1								1	1	9		
16385	Beaver Brook	BARKHAMSTED	10/7 /2017		1		1	1	1	2	1		1	8	1	1	1		1	1								1	6	20		
20150	Beckley Pond Brook	NORFOLK	9 /29/2018		1		1	1		2				5	1	1	1		1	1					1	1			6	18		
18889	Bee Brook	WASHINGTON	9 /21/2018		1			1			1			3	1	1		1	1	1									1	9		
18889	Bee Brook	WASHINGTON	9 /27/2018		1			1	1		1		1	5	1	1	1	1	1					1						11		
17992	BIG BROOK	SALEM	10/5 /2017					1						1		1		1	1	1	1				1		1		6	14		
20152	Big Brook	AVON	12/8 /2018											0	1	1		1								1		1	2	7		
17295	Bigelow Brook	ASHFORD	10/16/2017		1		1	1			1			4	1	1	1	1	1	1					1				2	13		
19158	Birdseye Brook	CORNWALL	10/3 /2017		1			1			1			3	1		1	1	1	1								1	1	10		
17347	Black Pond	WOODSTOCK	11/30/2018			1		1		3				5	1	1	1	1	1						1		1	1	1	13		
16518	BLACKLEDGE RIVER	COLCHESTER	8 /3 /2017		1	1		1					1	4	1		1	1	2	1							1	1	6	18		
16518	BLACKLEDGE RIVER	COLCHESTER	10/22/2017		1			1		1	1		1	6	1	1	1	1	1	1					1	1	1	1	1	16		

Station #	Waterbody Name	Town	Date	Most Wanted Taxa													Moderately Wanted Taxa						Least Wanted Taxa						Other Taxa	GRAND TOTAL Taxa Count		
				Drunella spp.	Isonychia spp.	Epeorus spp.	Peltoperlidae (All genera)	Perlidae (All genera)	Pteronarycs spp.	Other Stonefly Families	Glossosoma spp.	Apatania spp.	Rhyacophila spp.	Brachycentrus spp.	Lepidostoma spp.	TOTAL Most Wanted	Hydropsychidae	Philopotamidae	Heptageniidae (Not Drunella)	Psephenidae	Corydalidae	Anisoptera Families	Zygoptera Families	Amphipoda	Isopoda	Leech	Chironomidae	Simuliidae			Gastropoda	Oligochaeta
				1	2	3	4	5A	5B	5C	6A	6B	7	8A	8B		9	10	11	12	13	14A	14B	15	16	17	18	19			20	21
16518	BLACKLEDGE RIVER	COLCHESTER	7 /13/2018	1	1	1		1			1			6	1	1	1	1	1	1									4	17		
16518	BLACKLEDGE RIVER	COLCHESTER	9 /15/2018		1			1			1		1	6	1	1	1	1	1	1			1					1	3	18		
16266	Bolton Pond Brook	BOLTON	11/5 /2017							1				1	1		1											2	5			
16266	Bolton Pond Brook	BOLTON	11/4 /2018											0	1	1	1	1										3	7			
15315	Burnhams Brook	EAST HADDAM	5 /6 /2017							2		1	1	4		1			1								1	6	13			
15315	Burnhams Brook	EAST HADDAM	4 /7 /2018			1	1	1		1			1	5	1		1		1						1	1	1	5	16			
15315	Burnhams Brook	EAST HADDAM	10/19/2018				1	1		1				3	1	1	1		1	1								3	11			
20049	Byram River	GREENWICH	11/3 /2017		1			1			1	1		4	1	1		1				1	1				1	4	14			
15393	Cemetery Brook	POMFRET	11/7 /2018			1	1	1		2	1			7	1	1	1		1								1	6	18			
17270	Cherry Brook	CANTON	10/22/2017		1		1	1	1	1	1			6	1	1	1		1	1	1							1	13			
18832	Cranberry Meadow Brook	EAST LYME	10/20/2017		1		1	1		1				4	1	1	1	1	1	1	1				1			5	17			
15163	Day Brook	POMFRET	10/13/2017			1	1	1		1		1		5	1	1	1	1	1	2					1			7	20			
14171	Deep Brook	NEWTOWN	10/14/2017							1				1	1	1	1	1	1				1				1	3	11			
16324	Dickinson Creek	COLCHESTER	6 /10/2017	1	1	1		1					1	5	1	1		1	1	1							1	3	14			
16324	Dickinson Creek	COLCHESTER	9 /9 /2017			1		1			1			4	1	1	1	1	1	2							1	2	14			
16324	Dickinson Creek	COLCHESTER	9 /8 /2018			1		1					1	3	1		1	1	1	1							1	1	10			
18390	E. Branch Eightmile River	LYME	11/19/2017		1			1		1			1	4	1	1	1	1		1							1	3	13			
18962	E. Branch Eightmile River	SALEM	10/13/2017		1			1		1			1	5	1	1	1		1	1					1			1	12			
19245	E. Branch Salmon Brook	GRANBY	10/21/2017		1		1		1	2	1		1	7	1	1	1	1	1	1					1			6	20			
18993	E. Meadow Brook	WOODBURY	10/13/2018		1	1		1		2	1			6	1	1	1	1	1							1	1	5	18			
20045	E. Meadow Brook	WOODBURY	10/14/2017					1		1				2	1	1	1	1	1		1							3	11			
20044	E. Spring Brook	BETHLEHEM	10/14/2017					1		2			1	4	1	1	1	1	1	1	1				1	1	1	5	20			
20048	Elisha Brook	NORWICH	11/28/2017					1						1	1	1									1			3	7			
16207	English Neighborhood Brook	WOODSTOCK	10/12/2017		1		1	1		2	1			6		1			1	1	1						6	17				

Station #	Waterbody Name	Town	Date	Most Wanted Taxa										Moderately Wanted Taxa						Least Wanted Taxa						Other Taxa	GRAND TOTAL Taxa Count					
				Drunella spp.	Isonychia spp.	Epeorus spp.	Peltoperlidae (All genera)	Perlidae (All genera)	Pteronarycs spp.	Other Stonefly Families	Glossosoma spp.	Apatania spp.	Rhyacophila spp.	Brachycentrus spp.	Lepidostoma spp.	TOTAL Most Wanted	Hydropsychidae	Philopotamidae	Heptageniidae (Not Drunella)	Psephenidae	Corydalidae	Anisoptera Families	Zygoptera Families	Amphipoda	Isopoda			Leech	Chironomidae	Simuliidae	Gastropoda	Oligochaeta
				1	2	3	4	5A	5B	5C	6A	6B	7	8A	8B		9	10	11	12	13	14A	14B	15	16			17	18	19	20	21
18409	Fawn Brook	MARLBOROUGH	8/8/2018		1			1					1		3	1			1	1	1							1	2	10		
18433	Fawn Brook	MARLBOROUGH	10/22/2018		1			1		1			1		4	1	1	1	1	1	1	1			1	1	1		7	21		
18846	Fawn Brook	HEBRON	10/22/2018		1	1		1		1	1		1		6	1	1	1	1	1	1				1	1			4	18		
15888	Fawn Brook, W. Branch	MARLBOROUGH	10/22/2018		1			1		1	1				4	1	1	1	1	1	1	1				1		1	2	15		
20125	Fish & Game Brook	VERNON	9/30/2018					1		1					2	1	1			1	1				1				3	10		
16121	Flat Brook	EAST HAMPTON	9/8/2018		1			1		1	1		1		5	1	1	1	1	1					1				2	13		
19813	Flat Brook	MARLBOROUGH	10/17/2017					1	1	2	1		1	1	7	1	1	1	1	1	1		1			1		1	6	22		
19812	Foote Sawmill Brook	MARLBOROUGH	10/1/2017					1			1	1			3	1	1	1	1	1	1	1			1		1		5	18		
19812	Foote Sawmill Brook	MARLBOROUGH	10/7/2018							1	1				2	1	1	1		1				1			1		2	10		
18961	Fraser Brook	SALEM	4/21/2018					1					1		2	1		1		1					1	1			2	9		
18961	Fraser Brook	SALEM	11/17/2018					1							1	1	1			1	1				1	1			1	8		
15592	French Brook	BOLTON	11/5/2017												0	1				1	1						1		2	6		
15592	French Brook	BOLTON	11/4/2018												0	1	1			1	2						1		1	7		
15164	Furnace Brook	CORNWALL	9/25/2017		1		1	1	1	1	1				6	1	1	1	1	1									3	14		
20146	Goldmine Brook	NORWICH	10/23/2018							1					1	1	1	1											1	5		
16696	Good Hill Brook	WOODBURY	10/14/2017				1	1		2	1	1	1	1	9	1	1	1	1	1	1				1				6	22		
16697	GOODWIN BROOK	CHAPLIN	10/27/2017				1	1		2	1		1	1	7	1	1	1		1	1				1				9	22		
15313	Harris Brook	SALEM	10/21/2017		1			1							2	1		1		1		1							2	8		
19214	Harris Brook	SALEM	5/6/2017					1							1	1				1	3	1	1		1	1		1	3	14		
19214	Harris Brook	SALEM	10/13/2017		1			1							2	1	1	1		1	1	1				1	1		2	12		
19214	Harris Brook	SALEM	10/21/2017		1			1		2					4	1	1			1	2				1				1	11		
19214	Harris Brook	SALEM	4/7/2018					1		1			1		3	1	1	1		1	1				1			1	2	12		
19214	Harris Brook	SALEM	10/19/2018		1			1							2	1	1			1										5		
20126	Hedge Brook	EAST HADDAM	4/21/2018			1				3			1		5	1				1						1		1	2	11		

Station #	Waterbody Name	Town	Date	Most Wanted Taxa											Moderately Wanted Taxa						Least Wanted Taxa						Other Taxa	GRAND TOTAL Taxa Count				
				Drunella spp.	Isonychia spp.	Epeorus spp.	Peltoperlidae (All genera)	Perlidae (All genera)	Pteronarycs spp.	Other Stonefly Families	Glossosoma spp.	Apatania spp.	Rhyacophila spp.	Brachycentrus spp.	Lepidostoma spp.	TOTAL Most Wanted	Hydropsychidae	Philopotamidae	Heptageniidae (Not Drunella)	Psephenidae	Corydalidae	Anisoptera Families	Zygoptera Families	Amphipoda	Isopoda	Leech			Chironomidae	Simuliidae	Gastropoda	Oligochaeta
				1	2	3	4	5A	5B	5C	6A	6B	7	8A	8 B	9	10	11	12	13	14A	14B	15	16	17	18			19	20	21	
20126	Hedge Brook	EAST HADDAM	11/17/2018			1				2			1	1	5	1	1	1		1	1				1	1		1	3	16		
16759	Hoxie Brook	LEBANON	10/18/2017				1	1							2	1	1	1	1	1				1					2	10		
16759	Hoxie Brook	LEBANON	10/27/2017		1		1	1		1	1				5	1	1	1	1	1	2		1						5	18		
20051	Jeremy River	COLCHESTER	10/15/2017		1			1		1	1		1		5	1	1	1	1	1		1							6	18		
20148	Jordan Brook	WINDHAM	10/26/2018			1		1		1					3	1	1	1	1	1				1					4	13		
15045	Judd Brook	HEBRON	9 /24/2017		1			1					1		3	1	1		1	1	2						1		6	17		
15045	Judd Brook	HEBRON	10/6 /2018					1					1		2	1	1	1		1	2	1							1	10		
18413	Latimer Brook	EAST LYME	10/13/2017			1		1		1			1		4	1	1	1	1	1	3	1	1	1	1		1	3	20			
18495	Latimer Brook	EAST LYME	10/13/2017					1		1			1		3	1	1	1	1		2	1	1		1		1	3	16			
20043	Legion Brook	BARKHAMSTED	10/4 /2017				1	1		1					3	1	1	1	1	1	1	1			1		1	9	21			
14276	Little River	WOODSTOCK	9 /27/2017		1			1							2	1	1	1	1	1	1				1	1			2	12		
18981	Lyman Brook	MARLBOROUGH	10/7 /2017					1		1	1		1		4	1	1		1	1	1				1		1	2	14			
20149	Mad River NNT	NORFOLK	9 /29/2018					1		1	1		1		4	1	1	1	1	1	1				1	1		1	8	21		
19972	Mallory Brook	WASHINGTON	9 /22/2017			1		1	1				1		4	1	1			1							1	2	10			
15599	Mashamoquet Brook	POMFRET	9 /15/2018		1	1		1			1				4		1	1	1	1					1				4	13		
20047	Mashamoquet Brook	POMFRET	10/5 /2017		1			1			1				3	1	1	1	1	1	1				1				3	13		
18982	Meadow Brook	COLCHESTER	10/21/2018		1			1			1		1		4	1	1	1		1							1		7	16		
15211	Merrick Brook	SCOTLAND	10/16/2018		1			1			1				3	1			1	1	1				1				3	11		
18871	Moodus River	EAST HADDAM	9 /17/2017			1		1		1					3	1	1	1	1	1	1		1	1			1		3	15		
18871	Moodus River	EAST HADDAM	9 /22/2018					1							1	1	1	1	1	1	1					1	1		3	12		
16089	Morgan Brook	BARKHAMSTED	11/15/2017		1	1		1	1	2	1				7	1	1	1	1	1	1								5	18		
16123	Muddy Brook	EAST HADDAM	4 /21/2018			1	1	1		1			1		5	1				1	2					1	1		2	13		
16123	Muddy Brook	EAST HADDAM	11/17/2018				1	1					1		3	1	1			1									1	7		
16214	Muddy Brook	WOODSTOCK	10/23/2017		1			1		1					3	1	1	1		1	1								2	12		

Station #	Waterbody Name	Town	Date	Most Wanted Taxa										Moderately Wanted Taxa						Least Wanted Taxa						Other Taxa	GRAND TOTAL Taxa Count				
				1	2	3	4	5A	5B	5C	6A	6B	7	8A	8B	TOTAL Most Wanted	9	10	11	12	13	14A	14B	15	16			17	18	19	20
18694	Muddy Brook	EAST HADDAM	5 /6 /2017				1	1		1			1			4	1		1		1	2	1					1		4	16
18694	Muddy Brook	EAST HADDAM	10/21/2017		1		1	1		1	1			1		6	1	1	1	1	1	1				1				5	18
17758	Nepaug River	NEW HARTFORD	10/28/2017		1			1		1						3		1	1	1	1	1						1			10
19974	Nightingale Brook	POMFRET	10/16/2017		1			1					1			3	1	1		1	1	2	1							4	14
20151	North Brook	NEW HARTFORD	10/7 /2018					1		1	1		1			4	1	1	1	1	1	2				1				5	17
19707	Ogden Brook	VERNON	10/14/2017													0	1	1				1								3	6
16438	Pine Brook	COLCHESTER	10/15/2017				1	1			1			1		4	1	1	1		1	1	1				1			3	14
20041	Pond Brook	NEWTOWN	10/14/2017		1			1		1		1				4	1	1	1	1	1	1		1			1			4	16
14406	Pootatuck River	NEWTOWN	10/12/2017		1			1	1	1						4	1	1		1		1		1				1		2	12
15280	Pootatuck River	NEWTOWN	10/19/2017		1			1	1		1	1				5	1	1	1	1		1		1				1		3	15
16420	Pootatuck River	NEWTOWN	10/12/2017		1			1			1		1			4	1	1		1				1			1			2	12
18734	Pootatuck river	NEWTOWN	6 /25/2017					1		1		1				3	1	1	1	1		1		1	1			1		6	17
20042	Pootatuck River	NEWTOWN	10/14/2017		1			1				1				3	1	1	1				1					1		3	12
15314	PV Brook	LYME	10/21/2017			1	1	1		1	1					5	1	1	1	1	1	2	1	1	1		1		1	6	23
15314	PV Brook	LYME	4 /21/2018			1		1				1				3	1		1		1	2		1	1		1	1	1	4	17
15314	PV Brook	LYME	11/17/2018					1		1						2	1	1	1		1	1		1		1	1			2	12
16995	Railroad Brook	VERNON	10/14/2017		1			1		1						3	1	1	1	1	1	2	1				1	1		4	14
16995	Railroad Brook	VERNON	9 /30/2018					1		1						2	1	1	1	1						1		1		4	12
17971	Railroad Brook	BOLTON	11/5 /2017					1		1						2	1	1	1		1							1		3	10
17971	Railroad Brook	BOLTON	11/4 /2018					1				1				2	1	1	1		1	1				1				2	10
19215	Ransom Brook	SALEM	5 /6 /2017				1	1				1				3	1		1		1	2								3	11
19215	Ransom Brook	SALEM	10/13/2017				1	1					1			3	1	1		1	1	1								7	15
19215	Ransom Brook	SALEM	4 /7 /2018					1		2		1				4	1	1	1		1	2				1	1			5	17
19215	Ransom Brook	SALEM	10/19/2018				1	1		1			1			4	1	1	1	1	1	1								2	12

Station #	Waterbody Name	Town	Date	Most Wanted Taxa											Moderately Wanted Taxa						Least Wanted Taxa						Other Taxa	GRAND TOTAL Taxa Count		
				1	2	3	4	5A	5B	5C	6A	6B	7	8A	8B	TOTAL Most Wanted	9	10	11	12	13	14A	14B	15	16	17			18	19
16999	RAYMOND BROOK	HEBRON	10/28/2017				1		2			1		4	1	1	1	1	1	1							1		6	17
20154	Reichenback Brook	WOODBURY	10/13/2018			1	1		2	1				5	1	1	1	1	1							1	1	5	17	
17102	Rickenback Brook	VERNON	10/14/2017				1	1			1			3	1	1	1		1	2					1		1	3	14	
17102	Rickenback Brook	VERNON	9/30/2018				1							1	1	1			1						1		1	3	9	
19458	Roaring Brook #2	LYME	10/21/2017		1		1	1		1		1	1	6	1	1	1	1	1	1	1							1	14	
19458	Roaring Brook #2	LYME	4/7/2018		1	1			3			1		6						1					1		1	2	11	
19458	Roaring Brook #2	LYME	8/21/2018		1	1	1					1		4	1	1			1	1				1		1	1	3	14	
14440	Salmon River	EAST HAMPTON	9/9/2017			1	1			1		1		4	1		1	1	1	1		1			1	1	1	10	23	
14440	Salmon River	EAST HAMPTON	9/8/2018			1	1		1	1		1		5	1		1	1	1	1				1				4	15	
17818	SKINNER BROOK	WOODSTOCK	11/4/2017			1	1	1		2		1		6	1		1	1	1								1	9	20	
20147	Spinning Mill Brook	LEBANON	10/19/2018		1						1			2	1	1	1	1	1	1						1	1	3	13	
20046	Spruce Brook	SOUTHBURY	10/14/2017				1	1		2				4	1	1	1	1	1	1			1		1	1	1	9	23	
16219	Taylor Brook	WOODSTOCK	10/10/2017						1					1	1	1	1		1	1			1		1			1	9	
18823	Tucker Brook	VERNON	10/14/2017				1							1	1					1							1	3	7	
19973	Tufts Branch	THOMPSON	10/10/2017		1		1		1				1	4	1	1	1	1	1						1		1	2	13	
18063	TURRILL BROOK	ROXBURY	9/23/2017				1	1		1		1		4	1	1	1	1	1								1	2	12	
15499	W. Branch Salmon Brook	GRANBY	10/15/2017		1		1	1	1	1				5	1	1	1	1	1							1		4	15	
18984	Willeys Brook	EAST HAMPTON	11/15/2017				1	1				1		3	1	1	1		1	1							1	6	15	
18984	Willeys Brook	EAST HAMPTON	11/8/2018											0						1									1	

Interpreting Your Results

RBV monitoring locations that supported four or more 'Most Wanted' macroinvertebrate types, are considered to be 'healthy waters'. DEEP will integrate these '4 or more' results into the biennial water quality assessment process, noting them as locations that support aquatic life use. Refer to Table 3 for additional monitoring result interpretation guidance. Local RBV Program Coordinators are encouraged to contact the State RBV Coordinator to discuss follow-up actions for specific monitoring locations as needed.



Thank you to all of the volunteers who participated in 2017 & 2018! Top Row: Egon Loffel, a volunteer with the Pomperaug River Watershed Coalition; Stephen a volunteer with the Farmington River Watershed Association. Middle Row: A Three Rivers Community College student prepares an RBV voucher; Eightmile River Wild & Scenic volunteers; Three Rivers Community College volunteers. Bottom Row: Candlewood Valley Trout Unlimited volunteers, East Hampton High School students, The Last Green Valley volunteers.

Table 3. Interpretation of RBV Results by Most Wanted Taxa Type Count.

# 'Most Wanted' Taxa	What Does it Tell Us?
<p>4+</p>	<p><i>Excellent!! Lots of very sensitive macroinvertebrate types were present – <u>you found a healthy stream segment!</u></i></p> <p>This is a very clear signal of excellent water quality as the 'Most Wanted' types cannot survive in degraded streams or otherwise low water quality conditions.</p> <p>DEEP Assessment Decision: The stream containing the monitoring location will be considered for 'Fully Supporting' State aquatic life use standards. Fully supporting streams or stream segments will be listed in the next Integrated Water Quality Report (IWQR) and added to the DEEP's running list of miles of Healthy Waters assessed. (The IWQR is prepared by DEEP and submitted to the U.S. Environmental Protection Agency every two years.)</p> <p>Recommended Volunteer Follow-Up Action: Revisit every 2 to 5 years to continue documenting the excellent health of this stream.</p>
<p>3</p>	<p><i>A Very <u>Good Sign</u> – Keep this Site on Your Radar!</i></p> <p>Three Most Wanted or very sensitive macroinvertebrate types in a sample is a strong signal of good to excellent water quality. Although three most wanted is not statistically enough data for DEEP to list the site as a healthy stream segment this time, this is a great find!</p> <p>DEEP Assessment Decision: No Assessment Made... but consider trying again!</p> <p>Recommended Volunteer Follow-Up Action: If this was the first time the site was monitored with RBV, this site should be a high priority candidate for monitoring next season.</p>
<p>0-2</p>	<p><i>Double check whether this is a good spot to be using the RBV method...</i></p> <p>More information is needed to determine the water quality at this site. Reasons for few most wanted may include poor water quality; <i>however</i>, few most wanted types should not be interpreted as a proof of degraded conditions. Other factors such as unusual flow conditions (i.e. very high or very low), lack of adequate riffle habitat, etc. could result in few most wanted types despite overall good water quality.</p> <p>DEEP Assessment Decision: No Assessment Made</p> <p>Recommended Volunteer Follow-Up Action: If this is a first-time monitoring location, and the site otherwise is suitable for RBV monitoring (e.g. small watershed with year-round flow and riffle habitat), assign the site a low to medium priority for follow-up monitoring.</p>

Appendix A: Local RBV Program Contact Information

Local RBV Program	Local Coordinator(s) Name(s)	Email
Bolton Conservation Commission	Rod Parlee	captundra@aol.com
Connecticut's Beardsley Zoo CDC	Jackie Westlein	jwestlein@BEARDSLEYZOO.ORG
Eightmile River Wild & Scenic Coordinating Committee	Pat Young	pyoung@eightmileriver.org
Farmington River Watershed Association	Alisa Phillips-Griggs	aphillipsgriggs@frwa.org
Fairfield University	Jim Biardi	jbiardi@fairfield.edu
Niantic River Watershed Committee	Judy Rondeau	judy.rondeau@comcast.net
Pomperaug River Watershed Coalition	Carol Haskins	chaskins@pomperaug.org
Quinnipiac River Watershed Association	Becky Martorelli	beckym06451@yahoo.com
Salmon River Watershed Partnership	Pat Young	salmonriverct@att.net
The Last Green Valley	Jean Pillo	jean.pillo@conservect.org
Three Rivers Community College	Diba Khan-Bureau	dkhan-bureau@trcc.commnet.edu
Town of Greenwich IWWA	Doreen Carroll-Andrews	dcarroll@greenwichct.org
Town of Greenwich Conservation Commission	Sarah Cocco	Sarah.Cocco@greenwichct.org
Vernon Conservation Commission	Tom Ouellette	tom.r.ouellette@gmail.com
WAMOGO High School	Chris Brittain	cbrittain@rsd6.org
Washington Montessori School	Tom Fahsbender	tfahsbender@washingtonmontessori.org



From left to right: Tom Ouellette, local RBV Coordinator for the Vernon Conservation Commission, stands alongside an RBV monitoring location on Tucker Brook; volunteers with The Last Green Valley's Water Quality Monitoring Program conduct an RBV assessment on Bigelow Brook; students from the Washington Montessori School monitor Mallory Brook; Ingrid Davis, a long-time Pomperaug River Watershed Coalition RBV volunteer at Spruce Brook; and volunteers with the Salmon River Watershed Partnership sample the Moodus River.

Appendix B: RBV Monitoring Station Description & Details

Locations are sorted by DEEP Station ID number. Note that the actual RBV monitoring location may have been slightly upstream or downstream of the official DEEP database station. Table abbreviations include: NNT = Unnamed Tributary to; DS = Downstream; US = Upstream.

See page B-4 for a collector abbreviation chart.

Station	Waterbody	Monitoring Location	Town	Latitude	Longitude	Collector(s)*
14171	Deep Brook	US tributary	NEWTOWN	41.41150	-73.28480	CVTU
14276	Little River	DS 150 meters Peake Brook Road	WOODSTOCK	41.92800	-71.93150	TLGV/WA
14406	Pootatuck River	DS Wasserman Way on Game Club Property	NEWTOWN	41.40640	-73.27200	CVTU
14440	Salmon River	DS Route 16 Bridge	EAST HAMPTON	41.55260	-72.44960	SRWP
15045	Judd Brook	At mouth, US Airline Trail crossing	HEBRON	41.60050	-72.37300	SRWP
15138	Bantam River	DS Route 63	LITCHFIELD	41.73050	-73.18680	WRHS
15163	Day Brook	behind Center at trail crossing	POMFRET	41.86350	-71.95540	TLGV
15164	Furnace Brook	at Picnic table pool adjacent to Route 4	CORNWALL	41.82740	-73.35530	WMS
15211	Merrick Brook	US Plains/Bass Rd.	SCOTLAND	41.68000	-72.10480	TLGV
15280	Pootatuck River	at Tom's Brook; DS STP outfall	NEWTOWN	41.41490	-73.28270	CVTU
15312	Beaver Brook	DS bridge at 55-123 Beaver Brook Road	LYME	41.40995	-72.32906	TRCC
15313	Harris Brook	at Mouth (within Walden Preserve)	SALEM	41.47330	-72.28510	TRCC
15314	Eightmile River, Tributary to ("PV Brook")	within Pleasant Valley Preserve	LYME	41.41550	-72.33960	TRCC
15315	Burnhams Brook	at Mouth	EAST HADDAM	41.46030	-72.33430	TRCC
15393	Cemetery Brook	DS Taft Pond Road at 4-H Horse camp entrance	POMFRET	41.88180	-72.02830	TLGV
15499	West Branch Salmon Brook	at Simsbury Road	GRANBY	41.94096	-72.83430	FRWA
15592	French Brook	at French Road	BOLTON	41.74420	-72.44850	BCC
15599	Mashamoquet Brook	end paved section of road in state park	POMFRET	41.85610	-71.97580	TLGV
15888	Fawn Brook, West Branch headwaters	at Holcombe Road/Stonehouse Road	MARLBOROUGH	41.63920	-72.41550	SRWP/RHAM
16089	Morgan Brook	US Route 318	BARKHAMSTED	41.90860	-73.00070	FRWA
16121	Flat Brook	at Route 16 (at mouth)	EAST HAMPTON	41.55440	-72.45230	SRWP
16123	Muddy Brook	at Hopyard Road	EAST HADDAM	41.47560	-72.34200	TRCC
16207	English Neighborhood Brook	at Route 197	WOODSTOCK	41.99200	-71.99840	TLGV/NC
16214	Muddy Brook	at Woodstock Rd	WOODSTOCK	41.98410	-71.98060	TLGV/WA
16219	Taylor Brook	at Pulpit Rock Rd	WOODSTOCK	41.95020	-72.00450	TLGV/WA
16266	Bolton Pond Brook	at Mark Anthony Lane	BOLTON	41.77840	-72.41670	BCC
16324	Dickinson Creek	At the mouth	COLCHESTER	41.55750	-72.44200	SRWP/GZA
16385	Beaver Brook	adjacent to park road DS of crossing	BARKHAMSTED	41.93200	-72.97540	FRWA

Station	Waterbody	Monitoring Location	Town	Latitude	Longitude	Collector(s)*
16420	Pootatuck River	at Walnut Tree Hill Road (mouth)	NEWTOWN	41.43760	-73.27020	CVTU
16438	Pine Brook	at mouth (Colchester F&G property)	COLCHESTER	41.58011	-72.39937	SRWP
16468	ABINGTON BROOK	100 M US of Cheney Rd. under rte. 44	POMFRET	41.86030	-71.99890	TLGV
16518	BLACKLEDGE RIVER	US of River Rd. Bridge	COLCHESTER	41.58580	-72.42140	SRWP/HERP
16696	Good Hill Brook	US of Grassy Hill Rd	WOODBURY	41.54080	-73.23420	PRWC
16697	GOODWIN BROOK	100 M DS of state forest access Rd. off Morey Rd.	CHAPLIN	41.82250	-72.09780	TLGV
16759	Hoxie Brook	DS of Hoxie Rd.	LEBANON	41.60580	-72.20280	TLGV
16995	Railroad Brook	US Tankerhoosen River, DS Bread and Milk Road	VERNON	41.82772	-72.44828	VCC
16999	RAYMOND BROOK	DS Grayville Rd	HEBRON	41.61280	-72.36810	SRWP
17102	Rickenback Brook	400 m US Bolton Rd.	VERNON	41.83280	-72.44580	VCC
17270	Cherry Brook	at Barbourtown Rd. at Route 179	CANTON	41.85880	-72.91320	CBPS
17295	Bigelow Brook	DS Eastford Road	ASHFORD	41.91820	-72.13980	TLGV
17347	Black Pond	Outflow	WOODSTOCK	41.96150	-72.05910	TLGV
17567	Bartlett Brook	US Taylor Bridge Road	LEBANON	41.58830	-72.25627	TLGV
17758	Nepaug River	at 741 Steele Road	NEW HARTFORD	41.83059	-72.97953	FRWA
17818	SKINNER BROOK	US OF PERRIN RD	WOODSTOCK	41.93210	-72.04491	TLGV
17971	Railroad Brook	DS Bolton Notch Pond (Freja Park)	BOLTON	41.79220	-72.45299	BCC
17992	BIG BROOK	US OF Rte. 85	SALEM	41.50446	-72.28783	8MILE/SLT/EHLT
18063	Turrill Brook	US from Lake Lillinonah	ROXBURY	41.51057	-73.31547	FOTL
18390	East Branch Eightmile River	US Salem Rd. (US former Ed Bills spillway)	LYME	41.42682	-72.33191	8MILE/SLT/TNC
18409	Fawn Brook	DS Old Hartford Road/S. Main Street (at mouth)	MARLBOROUGH	41.60458	-72.41875	SRWP
18413	Latimer Brook	50m US Colony Road	EAST LYME	41.38397	-72.21429	NRWC/ELCCNR
18433	Fawn Brook	at end of Papermill Road	MARLBOROUGH	41.62235	-72.40910	SRWP/RHAM
18495	Latimer Brook	US Route 1, behind Flanders Plaza	EAST LYME	41.36726	-72.20808	NRWC/ELCCNR
18694	Muddy Brook	US 100m of Hopyard Rd.	EAST HADDAM	41.47597	-72.34292	TRCC
18734	Pootatuck River	US of footbridge above Church Hill Rd	NEWTOWN	41.41999	-73.28219	CVTU
18821	Baker Brook, NNT	DS School Road	BOLTON	41.74794	-72.42410	BCC
18823	Tankerhoosen River, NNT ("Tucker Brook")	US Tankerhoosen River, at Dobson Rd	VERNON	41.82364	-72.48720	VCC
18832	Cranberry Meadow Brook	70m DS Unnamed Tributary ("Pigeon Hill Brook")	EAST LYME	41.40737	-72.22793	NRWC/ELCCNR
18846	Fawn Brook ("East Branch Fawn Brook")	DS of old Dam Howe Property	HEBRON	41.62790	-72.40813	SRWP/RHAM
18871	Moodus River	25m US of Gristmill Rd. Crossing	EAST HADDAM	41.50859	-72.44826	SRWP
18889	Bee Brook	500 m US of Shepaug River	WASHINGTON	41.66014	-73.31994	WMS
18961	Fraser Brook	at Salem Community Park	SALEM	41.48108	-72.25275	TRCC
18962	East Branch Eightmile River	100m DS Darling Road	SALEM	41.44221	-72.30620	TRCC
18981	Lyman Brook	125m DS of Glenwood Drive cul-de-sac	MARLBOROUGH	41.63271	-72.45228	SRWP

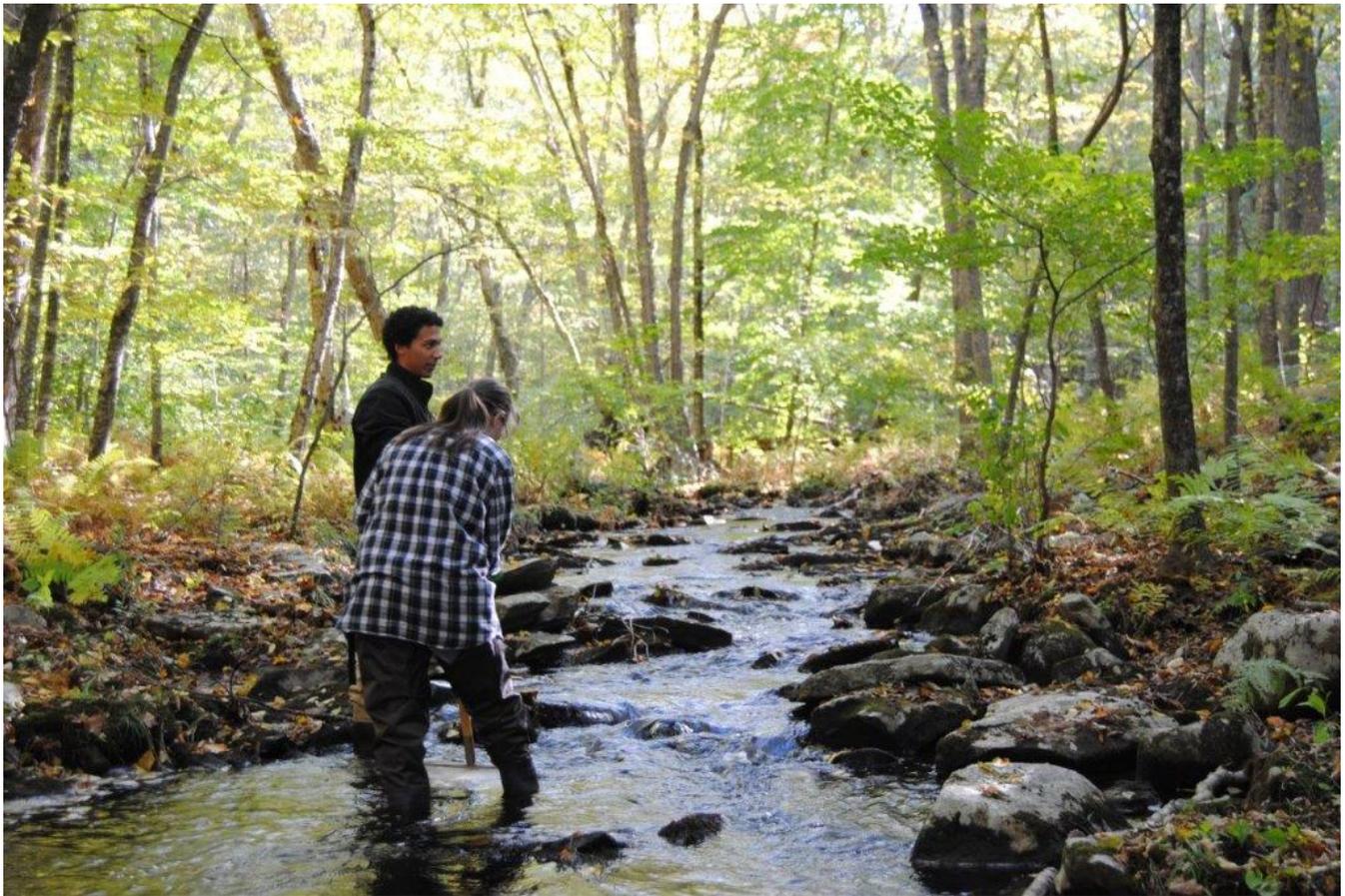
Station	Waterbody	Monitoring Location	Town	Latitude	Longitude	Collector(s)*
18982	Meadow Brook	50m DS Prospect Hill Rd	COLCHESTER	41.58306	-72.37972	SRWP
18984	Willeys Brook ("Christopher Brook")	US Clark Hill Road	EAST HAMPTON	41.59571	-72.52038	SRWP/EHHS
18993	East Meadow Brook	at Scratchville Road	WOODBURY	41.55509	-73.19706	PRWC
19158	Birdseye Brook	30m US Valley Road	CORNWALL	41.83548	-73.32850	HVA
19214	Harris Brook	0.25 mi US Music Vale Rd	SALEM	41.48739	-72.27044	TRCC
19215	E. Branch Eightmile River, NNT ("Ransom Brook")	30m DS Darling Rd	SALEM	41.45494	-72.28356	TRCC
19245	East Branch Salmon Brook	200 m above East St	GRANBY	41.99908	-72.83021	FRWA
19458	Roaring Brook #2	US Rt 82, behind Hadlyme Post Office	LYME	41.42348	-72.39911	TRCC/8MILE
19707	Ogden Brook	Adjacent to Winding Brook Trail	VERNON	41.84303	-72.47404	VCC
19812	Foote Sawmill Brook	At South Buckboard Lane	MARLBOROUGH	41.67578	-72.46045	SRWP
19813	Flat Brook	at Standish Road (at mouth)	MARLBOROUGH	41.67577	-72.46300	SRWP
19972	Mallory Brook	30m US Sabbady Lane	WASHINGTON	41.64940	-73.30080	WMS
19973	Tufts Branch	30m US Quinebaug Road (Rte. 131)	THOMPSON	42.02010	-71.94170	TLGV/NC
19974	Nightingale Brook	100m US of Taft Pond Road	POMFRET	41.88145	-72.02130	TLGV/WA
20041	Pond Brook	US intersection of Pond Brook & Georges Hill Rds.	NEWTOWN	41.44896	-73.34141	CVTU
20042	Pootatuck River	Within Rocky Glen State Park	NEWTOWN	41.42762	-73.28134	CVTU
20043	W. Branch Farmington River, NNT ("Legion Brook")	Within American Legion Forest, US Legion Road	BARKHAMSTED	41.92801	-73.01084	FRWA
20044	East Spring Brook	30m DS of Maddox Rd.	BETHLEHEM	41.63119	-73.18479	PRWC
20045	East Meadow Brook	DS Church Hill Rd	WOODBURY	41.59793	-73.20554	PRWC
20046	Spruce Brook	DS of Spruce Brook Road, near New Road	SOUTHBURY	41.48789	-73.26860	PRWC
20047	Mashamoquet Brook	15m DS Wolf Den Road	POMFRET	41.85633	-71.96640	TLGV/WA
20048	Elisha Brook	40m US Winnenden Road	NORWICH	41.57379	-72.11637	TLGV
20049	Byram River	Between Fairview Country Club and Hycliff Road	GREENWICH	41.07040	-73.68570	GIWWA
20051	Jeremy River	300 ft US Route 149	COLCHESTER	41.58021	-72.40082	SRWP
20125	Tankerhoosen River, NNT ("Fish & Game Brook")	30m US of Fish & Game Road	VERNON	41.84139	-72.43027	VCC/NRCA
20126	Hedge Brook	At West Dolbia Hill Road	EAST HADDAM	41.45207	-72.33766	TRCC
20146	Goldmine Brook	30m US of Route 82	NORWICH	41.50664	-72.13297	TLGV
20147	Spinning Mill Brook	at Cook Hill Road	LEBANON	41.69428	-72.26115	TLGV/ECCD
20148	Jordan Brook	at Bush Hill Road	WINDHAM	41.69231	-72.18925	TLGV/ECCD
20149	Mad River, NNT	DS Grantville Road, US Smith Pond	NORFOLK	41.95398	-73.17529	FRWA
20150	Beckley Pond Brook	25m US Grantville Road	NORFOLK	41.95211	-73.15898	FRWA
20151	North Brook	Adjacent Stub Hollow Road, US of Grays Pond	NEW HARTFORD	41.85551	-73.01029	FRWA
20152	BIG BROOK	Behind #254 Haynes Road	AVON	41.77182	-72.87188	FRWA/NRCA
20154	Reichenback Brook	at Mill Road	WOODBURY	41.57585	-73.17105	PRWC

***Organization Collector Codes**

Collector Code	Organization Name	Collector Code	Organization Name	Collector Code	Organization Name
BCC	Bolton Conservation Commission	GIWWA	Greenwich Inland Wetlands & Watercourses Agency	TLGV	The Last Green Valley
CBPS	Cherry Brook Primary School	GZA	GZA GeoEnvironmental, Inc.	TNC	The Nature Conservancy
CVTU	Trout Unlimited - Candlewood Valley Chapter	HVA	Housatonic Valley Association	TRCC	Three Rivers Community College
ECCD	Eastern CT Conservation District	NC	Nichols College	HERP	UConn Herpetology Club
EHHS	East Hampton High School Environmental Science Club	NRCA	UCONN Natural Resource Conservation Academy	VCC	Vernon Conservation Commission
EHLT	East Haddam Land Trust	NRWC	Niantic River Watershed Committee	WA	Woodstock Academy
ELCCNR	East Lyme Commission for the Conservation of Natural Resources	PRWC	Pomperaug River Watershed Coalition	WMS	Washington Montessori School
ERWSCC	Eightmile River Wild & Scenic Coordinating Committee	RHAM	RHAM High School	WRHS	WAMOGO Regional High School
FOTL	Friends of the Lake	SLT	Salem Land Trust		
FRWA	Farmington River Watershed Association	SRWP	Salmon River Watershed Partnership		



CT Department of Energy & Environmental Protection
Riffle Bioassessment by Volunteers
Volunteer Water Quality Monitoring Program



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