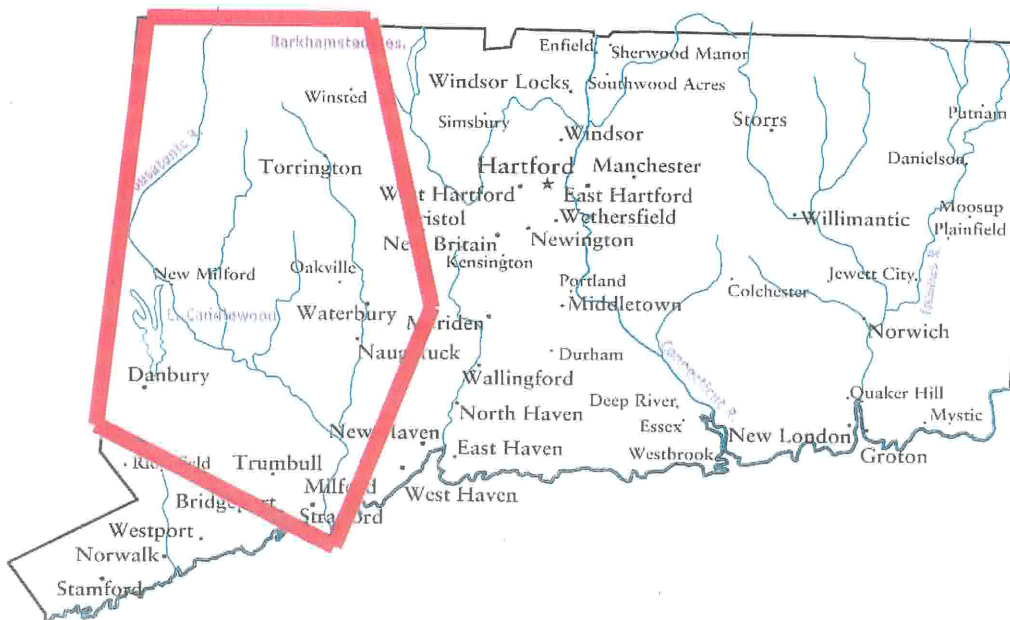
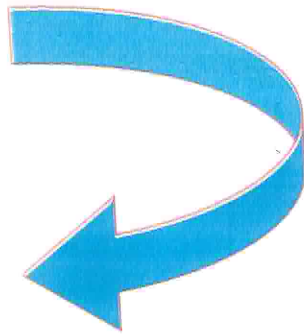


# Housatonic Basin Natural Resources Restoration Project Proposal

Submitted to the Natural Resource Trustee SubCouncil for Connecticut in response to their Request for Proposals, as it relates to the Housatonic Basin Natural Resources Restoration Project.



**HOUSATONIC RIVER NATURAL RESOURCES RESTORATION PROJECT  
CONNECTICUT SUBCOUNCIL REQUEST FOR PROPOSALS (RFP)**

**Part A: RESPONDER AND PROJECT SUMMARY FORM**

**Please read "RFP: Overview of Selection Process" before completing this form.**  
Part A must be completed using Submittal Form A.  
Responses may be entered electronically using the Microsoft Word version of Part A of this form available on the Housatonic River Basin Natural Resource Restoration Project in Connecticut website ([www.housatonicrestoration.org](http://www.housatonicrestoration.org)), saved and printed. Alternatively, the responder may print the form and complete it with black ink.  
An Adobe Acrobat version of the entire form (Part A and Part B) is also available on the Housatonic River Basin Natural Resource Restoration Project in Connecticut website

**Project Name** Provide a brief working name.

**Housatonic and Naugatuck Watershed Trout Stocking and Stream Improvement**

**Responder – if there is more than one party involved in the project, please provide the information for the primary or lead party.**

Robert Perrella  
Name

President, Naugatuck/Pomperaug Chapter of Trout Unlimited  
Title

278 West Purchase Road  
Address

Address

Southbury, CT 06488  
City State Zip

(203) 264-1758  
Phone

johnnytroutseed@charter.net  
Email

**Type of Entity**

Check the box that best describes the primary respondent.

- Private individual
- Non-profit organization
- Municipal government
- State government
- County government
- Federal government
- Tribal government
- Corporation or Business
- Academic Institution
- Other (explain)

Naugatuck/Pomperaug Chapter TU, Housatonic Chapter TU, Washington Rod and Gun Club, Housatonic Fly Fishermen, Rainbow Club, Laurel Banks Rod and Gun Club, Roxbury Land Trust, Brian E. Tiernay Preserve and local interested volunteers.

**Project Implementation**

Does the responder plan to be the Project Sponsor and respond to the Request for Supplemental Information (RSI) pending approval of this Proposal?

Yes  No Pending acceptance, a full, detailed and complete proposal and schedule will be made available.

If yes, please list any other project participants. See above list in Column 2

If the responder does **NOT** plan to be the Project Sponsor and does **NOT** intend to respond to the Request for Supplemental Information (RSI), is the responder interested in being a project participant and assisting a different Project Sponsor on this project?

Yes  No

**Restoration Priority Funding Category** See Sec. 3 of "RFP: Overview of Selection Process" for category descriptions.

**Primary Restoration Category.** Check the restoration category that is the primary goal of the project.

Check one box.

- Aquatic Natural Resources Restoration/Enhancement
- Riparian & Floodplain Natural Resources Restoration/Enhancement
- Restoration/Enhancement of Recreational Uses of Natural Resources

**Secondary Categories.** Check all relevant boxes.

- Aquatic Natural Resources Restoration/Enhancement
- Riparian & Floodplain Natural Resources Restoration/Enhancement
- Restoration/Enhancement of Recreational Uses of Natural Resources

**List Specific Injured Natural Resources and/or Impaired Natural Resource Services to Benefit from Project**

Trout populations and stream improvements in the Housatonic and Naugatuck Watershed will be benefits of this project.

**Project Location** (if known) See directions and "RFP: Overview of Selection Process" for additional materials to provide (maps, aerial photographs)

Municipality/ies:

Longitude for approximate center of project area: 73 degrees, 15 minutes

Latitude for approximate center of project area: 41 degrees, 13 minutes

**Project Budget Estimate** (if known)

Total Project Cost Estimate: \$382,500.00

Housatonic River NRD Fund Estimate: \$382,500.00

**Project Narrative** - This proposal for the Housatonic Basin Natural Resources Restoration Project is submitted to the Natural Resources Trustee SubCouncil for Connecticut in response to their RFP to provide for the development and subsequent implementation of Phases II, III and IV of their Natural Resources Restoration Plan.

**Project Basis:** This project and its elements provide sustainable benefits over a five (5) year recovery period with significant ecological, recreational and some commercial benefits. This project enhances river habitat, fish habitat and fish stocks by restoring, establishing, rehabilitating, replacing sustainable natural resources in both biotic and riparian environments through the introduction of trout aqua-culture populations and stream improvements. Trout population restoration will be in sufficient quantities, via a five (5) year restocking program in streams and tributaries with sufficient water quality, to allow for natural reproduction and development of sustainable trout populations. This project also includes stream, bank and habitat restoration in a selected tributary in the designated area. The following are the approximate boundaries for the designated watershed for this project, 42°03' North (Massachusetts/CT line) by approximately 73°29' West (New York State/CT line) and contiguously encompassing the area to 41°20' North by approximately 72°57' West. This project will provide restoration benefits throughout a five-year "natural recovery period."

This project will also benefit the CT DEP, in that it may reduce capacity constraints currently existing in State run hatcheries with the culture/development of fish for the DEP's yearly stocking distributions.

**Purpose:** This project will provide sport fisheries and recreational opportunities in an external environment that encourages public access, allows land trust access, and multi-resource use including hiking, orienteering, camping, walking, general exercise, field trips, resource conservation, habitat improvement, recreation, and the general health and well-being of the public through utilization of outdoor activities and access to available natural resources.

**Cost/Benefit:** It is expected that the additional opportunities created by the project will increase the land and resource utilization by 20% as measured by access to and use of available public resources. The 20% utilization increase will be achieved through the allocation of 5.1 % of the total project funds of approximately \$7,500,000, (before additional interest, 5.1 % of \$7.5 million = \$382,500) for trout restocking over the five (5) year period, and stream improvement in year 3. This equates to approximately 16,667 trout available per year for each of the five (5) year restoration/restocking project. These figures assume that trout stocks in the 11"-12" length range are obtained/acquired through Connecticut aquaculture dealers, at a quoted cost of \$4.80 each. The 11" to 12" range was selected due to anticipated higher survival rates with a more mature stock. Size accommodation can be made for smaller tributary streams. It is expected that the stockings over the term can be accomplished at no additional project costs, through a cooperative engagement of CT TU Chapters, local fishing clubs and interested citizenry.

Year	Budget (\$382,500)	Project Phase
1	\$82,500	Stocking/Stream Restoration
2	\$75,000	Stocking
3	\$75,00	Stocking

4	\$75,000	Stocking
5	\$75,000	Stocking

Note: Stockings will be in accordance with the Connecticut DEP's stream designations for trout management. Additionally, fish stock lengths can be adjusted for stream size.

**Project Elements and Benefits:** The Naugatuck River receives only limited trout stocking (West Branch <650 in 2006). Effectively, this project could provide trout stocking to the more than 33 miles of the Naugatuck River and tributaries that currently receive no trout stocking.

This project will also provide significant benefit to the Shepaug River and tributary waters within the affected watershed. A dam is being considered/developed for the Upper Shepaug Reservoir, north of Woodville, CT. (Approximate location is 41°43' N and between 73°17' W and 73°18' W. ) This dam will allow for a continuous cold water discharge from the bottom of the Upper Shepaug Reservoir that provides sufficient water volume and quality to sustain year-round trout populations. Currently, Connecticut does only a very limited stocking in the Shepaug River e.g., the stocking in 1995 was <1100 fish, and was specific to the Town of Roxbury. While some, but not all, of the Shepaug's tributary streams are stocked, effectively more than 11 miles of the Shepaug River are unsupported by the CT. DEP's stockings. The combination of dam construction, CT DEP stocking and this project's fisheries stocking would provide a foundation to alleviate this inequity in stocking and restore the Shepaug to its previous sustainable trout population levels.

Additionally in 1995, the CT DEP's Senior Fisheries Biologist, at the request of the Naugatuck/Pomperaug Chapter of TU, conducted two (2) site visits of Jack's Brook (a tributary to the Shepaug River) located in part within the Roxbury Land Trust – Brian E. Tierney Preserve in Roxbury Township. Approximate confluence of Jack's Brook with the Shepaug River is 41°32' N. The affected stream area is between 73° 19' W to 73° 17' W, with stream origination extending as far north as 41° 34'. The purpose of the site visit was to assess stream conditions and provide observations, comment and feedback relative to stream viability for sustainable trout populations as they related to bank collapse/failure and trout population's general intolerance to physical habitat degradation. Full text is available.

The Senior Biologist concluded that ...“left unchecked, the bank failure ...will likely pose a threat to both physical habitat ... and the species structure of the fish community”, and further, “decrease the ability” ...”to sustain the trout component.”

Based on the conclusions, the Senior Biologist recommended “constructed log jams ...secured in place with soil anchors” ... in three (3) of the five (5) areas under observation. Material and equipment rental costs for habitat restorations were detailed and estimated at \$4,000 at that time. This portion of the project budget could be as high as \$7,500 in 2008, when inflation and any associated permit and access costs are considered. Materials and equipment rentals will be purchased through the local TU Chapter(s) and reimbursed by the Project. Project equipment movement and associated project labor costs will be “volunteered” from TU Chapters, interested “fishing clubs” and local citizenry at no additional cost to the project. A comparable project is currently underway between the Naugatuck and Pomperaug TU Chapter and the city of Beacon Falls.

## Housatonic Basin Natural Resources Restoration Project

The Housatonic Basin Natural Resources Restoration Project is a product of the natural resource damage assessment and restoration process established under CERCLA, and includes the ability to collect monetary payments done for harm/damage/injury to the natural environment and/or the construction of natural resource restoration projects. This proposal meets the form and format prescribed by the RFP.

For the initial review by the **SubCouncil or its designee**, this proposal,

1. contains all the information identified by the CT SubCouncil as set out in the Instructions for the Preparation and Submission.
2. describes and provides a project-basis to restore, rehabilitate, replace and/or acquire natural resources or natural resource services equivalent to those injured.
3. and subsets thereof, do NOT require any action(s) that is presently required under federal, state or local law.
4. is consistent with any federal, state or local law or policy
5. is consistent with any ongoing or anticipated remedial actions in the Housatonic River watershed.
6. contains no adverse impacts. Any subsequently identified adverse impacts from other sources can be readily mitigated.

For the review, evaluation and ranking by the **Review Teams**, this project proposal and its elements meet and exceed the overall program goals,

1. by restoring/rehabilitating/replacing the equivalent of the natural resources injured/lost.
2. by providing sustainable and measurable benefits to natural resources and services by virtue of an actual physical restoration project.
3. by integrating public participation, CT based purchase of resources and in-kind labor through "Club" participation in the project.
4. by providing a group of project subsets that focus on the aquatic, riparian, floodplain, restoration, rehabilitations and replacement or acquisition of equivalent resources.
5. with no adverse impacts with the proposed restorations.

**This project meets the 5 established evaluation criteria and 21 subset requirements of,**

1. Relevance and Applicability: Location within the "High" area, Ecological Benefit, Recreational Benefit, Sustainable Benefits and extended recovery period (5 years).
  2. Technical Merit: Project is readily feasible, provides measurable and verifiable results, has no adverse environmental impacts and no human health/safety concerns.
  3. Project Benefit: Effective cost benefit with a 20% increase in resource access and utilization at a cost of 5.1% of the available funding. Additionally, this project is focused on implementation by leveraging multiple volunteer and community resources at no additional project cost.
  4. Socioeconomic Merit: Coordinated and integrated community involvement and benefit, with an outreach element in project involvement and implementation.
  5. Implementation Capacity: The project technical, administrative capabilities and deployment are quite simple, straightforward and readily achievable.
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