Request f	or Proposa	ıls:
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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.	TT CO		
Responses may be entered electronically using the Microsoft			
Housatonic River Basin Natural Resource Restoration Project			
saved and printed. Alternatively, the responder may print the			
An Adobe Acrobat version of the entire from (Part A and Par Resource Restoration Project in Connecticut website	t b) is also available oil the Housatoliic River basili ivatural		
Project Name Provide a brief working name.			
Salmon Kill Restoration and Enhancement			
Responder - if there is more than one party involved in	Type of Entity		
the project, please provide the information for the primary	Check the box that best describes the primary respondent.		
or lead party.	Private individual		
Kirt Mayland, Trout Unlimited (National Office)	Non-profit organization Non-profit organization		
Name	Municipal government		
Eastern Water Project Director	State government		
Title	County government		
43 Reservoir Road	Federal government		
Address	Tribal government		
	Corporation or Business		
Address	Academic Institution		
Lakeville, CT 06039	Other (explain)		
City State Zip			
(860) 435-2073			
Phone			
kmayland@tu.org			
Email			
Project Implementation	Paguat for Cumlamental Information (PCD) manding approval		
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			
If yes, please list any other project participants.			
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 par	ticipant and assisting a different Project Sponsor on this project?		
Yes No			
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Housatonic River NRD Fund

Request for Proposals:

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** Salmon Kill and the Housatonic River. Injured and impaired natural resources in the Housatonic River to benefit will be water quality, health and abundance of wild fish communities, recreational fishing and boating, and biodiversity. Project Location (if known) See directions and "RFP: Overview of Selection Process" for additional materials to provide (maps, aerial photographs) Municipality/ies: Salisbury, CT; Lakeville, CT; Lime Rock, CT Longitude for approximate center of project area: 41 56'33.83" N Latitude for approximate center of project area: 73 23'28.11" W Project Budget Estimate (if known) Total Project Cost Estimate: \$ 784,000 Housatonic River NRD Fund Estimate: \$ 784,000

Salmon Kill Restoration and Enhancement

Item 1. Project Narrative. The Salmon Kill restoration and enhancement project (the "Project") has two primary components: (i) restoration and enhancement of streambanks, riparian zones and floodplains ("riparian improvements"), and (ii) instream work mainly comprising of a dam breach and placement of instream weirs and other structures to improve instream habitat ("instream improvements").

The riparian improvements would take place primarily on private land covering approximately 80 acres along the 6 miles of the Salmon Kill (the "creek"). All of the relevant landowners have informally agreed to let the proposed work take place on their property. The Salmon Kill valley is characterized by large private landholdings allowing it to remain mostly undeveloped and leaving scenery of hayfields, mixed evergreen and deciduous forest and the distant Taconic Range. Agriculture and industry dominated the banks of the creek historically, and agriculture, primarily haying operations, still does so today. This has left very little of the riparian forest to buffer and cool the waters of the wild trout fishery and to slow the high waters during flooding. This is true also for the ½ mile reach of the stream that runs along the Lime Rock Race Track (the "track"). Armoring along streambanks has further altered the floodplain and increased the velocity of the water.

The instream improvements involve breaching, or removing, the approximately 8foot high dam that runs across the creek in the center of Lime Rock and placement of
instream structures and rock weirs primarily through the channelized reach of the creek
running alongside the track. Heavy siltation has accumulated behind the dam for
approximately 200 feet and a scour hole approximately 6 feet deep is located at the foot
of the dam. Currently, there is no possibility of fish passage. During the warmer months,
the water behind the dam heats up significantly, increasing temperatures not only
downstream in the creek but also in the Housatonic River (the "main stem"). During
spring flooding flows, silt is carried over the dam coating the gravel bottom and
eliminating potential spawning habitat.

- a. Goals. The Project, upon completion, would fulfill all three restoration categories. It would restore and enhance aquatic habitat, riparian and floodplain resources, and recreational uses of natural resources.
- 1. The primary goal of the riparian improvements is to rehabilitate, enhance, and restore the streambanks, riparian forest and floodplain along the creek. This work would involve replanting of the floodplains, replacing invasive species with natives, stabilizing streambanks, and removal of armoring. Invasive species of flora along the streambanks include *Rosa multiflora*, Multiflora rose; *Rhamnus frangula*, Alder buckthorn; and *Celastrus orbiculatus*, Oriental bittersweet.

The objectives behind this work would be to limit further impacts of eroded sediments and other pollutants, slow water velocity during periods of high flow, and decrease summertime water temperatures by providing shading. This work should also increase biodiversity and reestablish native life in the riparian forest and floodplain.

Restoration of the riparian forest will also buffer the Salmon Kill from present land uses as well as possible future development along its banks.

- 2. The principal goal of the instream improvements is an increase in biodiversity and enhancement of instream habitat for the native brook trout in the upper reaches of the creek, the downstream wild brown trout populations and assorted aquatic life. The breaching of the dam would be preceded by a cleanup of the siltation and potential pollutants. The breaching itself would prevent further buildup from occurring, allow for fish movement and therefore healthier fish communities and increased biodiversity, and permit cleaner and colder water to flow through the creek and into the main stem. The reach of the creek that flows by the track was channelized decades ago during construction of the track, and instream life there would benefit from the placement of rock weirs and other instream structures to improve habitat.
- 3. The tertiary goal is to educate the landowners and the public entities involved in both the instream and riparian improvements. Public participation and education will be utilized to help in the implementation of the riparian and instream improvements and to educate the landowners on the effects certain land uses can have on the creek.
- b. Project Benefits: Most of the specific benefits have been described in the goals section above. These benefits are generally restoration and enhancement of the riparian forest and floodplain of approximately 80 acres along the Salmon Kill and improvement of instream habitat for all aquatic life. Beyond what has already been described, a substantial and primary benefit of the Project will be improvements to the main steam of the Housatonic River itself. The Salmon Kill is the most substantial tributary to the main stem below the Falls Village Dam and throughout the entire Trout Management Area ("TMA"). It is also one of the few coldwater refuges in this reach of the river that is actually deep enough for fish to move back and forth into. They use it to escape the warm waters of the mid-summer main stem and for spawning purposes. The Salmon Kill also offers the polluted main stem a critical supply of clean, cold water throughout the year. The Project would greatly enhance the value of all these services to the main stem.

As indicated below, the Salmon Kill enters the main stem immediately above the famous Housatonic TMA, one of the most popular fishing destinations in the state. The Project would not only bring substantial ecological benefits to the main stem, as described above, but, as river conditions improve, increase the popularity of fishing throughout the TMA The Project would also greatly benefit recreation and increase fishing potential in the Salmon Kill itself.

c. General Tasks: General tasks include (i) inventory and analysis of flora and fauna in aquatic and riparian habitats using GIS and GPS systems, (ii) removal of invasive species of flora and replacement with natives, (iii) planting of trees and shrubs along creek banks and in floodplain areas, (iv) removal of armoring in appropriate spots and recycling in others to stabilize stream banks and restore natural flood plain areas, (v) breaching of the dam (with multiple preliminary tasks), and (vi) placement of instream structures near the track.

Item 2. Project Location. The source of the Salmon Kill is in Salisbury, CT and its confluence with the Housatonic River is in Lime Rock, CT, immediately above the TMA. The headwaters to the Salmon Kill are several native brook trout streams flowing off of the Taconic Range in Salisbury, CT. The streams meet to form the source of the Salmon Kill approximately ¼ mile east of the center of the village of Salisbury, CT. Source: Latitude: 41 58'46.86" N; Longitude: 73 24'56.63" W; elevation: 689 ft. Confluence: Latitude: 41 56'06.10" N; Longitude: 73 21'56.43" W; Elevation: 543 ft.

The full watershed of this creek extends from Lake Wononskopomuc in Lakeville, CT, to the Mt. Riga ridgeline on the border of New York and Connecticut, to Fisher Pond approximately ½ mile south of the Massachusetts and Connecticut border. The villages of Salisbury, Lakeville, Lime Rock, CT are all included in the watershed. See attached Exhibit 1 for a map of the watershed. The locations of the riparian and instream improvements are detailed on Exhibit 2.

Item 3. Criteria Statement. The Project complies with all of the criteria as set forth in Section 6.1 of the Request for Proposals:

- This proposal complies contains all the information identified by the CT SubCouncil as set out in the "Instructions for Preparation and Submission of Restoration Projects".
- As indicated extensively throughout Item 1 of this proposal, the Project restores, rehabilitates and replaces both natural resources damaged by the release of PCBs and their equivalent. Natural resources both within and along the shores of the Salmon Kill, one of the principal and most critical tributaries to the main stem, and the main stem itself will benefit from the Project in a variety of areas. Improvements in water quality, fish habitat, biodiversity, and fish health and abundance, all negatively impacted by the release of PCBs, will result in the main stem as a result of work carried out for the Project.
- Neither the Project nor any portion of Project is presently required under another federal, state, or local law, including enforcement actions.
- The Project is consistent with all federal, state, or local laws and policies.
- The Project is not inconsistent with any ongoing or anticipated remedial actions in the Housatonic River watershed.



