

## Town Of New Fairfield

TOWN HALL  
4 BRUSH HILL ROAD  
NEW FAIRFIELD, CT 06812

(203) 312-5600

Selectmen's Office

RECEIVED  
JUN 18 2007  
INLAND FISHERIES

June 14, 2007

Mr. Michael J. Powers  
CTDEP – Inland Fisheries Division  
79 Elm Street  
Hartford, CT 06106-5127

Dear Mr. Powers,

On behalf of my project team, I am pleased to present to you the supplemental information for our proposal --- *Ball Pond and Short Woods Brooks Water Quality Improvement and Pedestrian Access*. We have been impressed with the completeness of the criteria requested and are grateful to have been invited to participate in this next phase of the selection process.

As you will see from your reading of this proposal, much thought and effort have gone into making this as complete and informative as possible. However, if there are any questions remaining, please feel that you may contact me at any time.

Thank you for your time and consideration of our proposal. We look forward to your review and response.

Sincerely,

Selectman Ronald R. Oliveri  
Project Team Leader

**Project Team: Tom Quigley, Ernest Fabrizio-Garcia, Jeff Main, and William McCann**

**Project Supporters (thus far):**

John Hodge - - First Selectman  
State Representative Jan Giegler  
Phillip Nelson - - Planning Commission  
Preserve New Fairfield  
Regine Lambrech - - Youth Commission  
Dom's Garden Center  
SHEP'S LLC - - Contractor

State Representative Mary Ann Carson  
State Senator David Cappiello  
Steve Merillo - - Parks & Recreation  
Kathy Hull - - Senior Center Director  
New Fairfield Land Trust  
New Fairfield Lions Club  
Many Individual Citizens

Housatonic River Basin Natural Resources Restoration Project  
Natural Resources Trustee SubCouncil for Connecticut  
Request for Supplemental Information (RSI)  
INSTRUCTIONS

**PART A: SPONSOR AND PROJECT SUMMARY FORM**

Please read "Request for Supplemental Information (RFI) OVERVIEW" and this document, "Request for Supplemental Information (RSI) INSTRUCTIONS" before completing this form.

Part A must be completed using this "Sponsor and Project Summary Form"

**SPONSOR INFORMATION**

**Type of Entity** Check the box that best describes the sponsor.

- |                                                  |                                                          |
|--------------------------------------------------|----------------------------------------------------------|
| <input type="checkbox"/> Private individual      | <input checked="" type="checkbox"/> Municipal government |
| <input type="checkbox"/> Non-profit organization | <input type="checkbox"/> Corporation or Business         |
| <input type="checkbox"/> State government        | <input type="checkbox"/> County government               |
| <input type="checkbox"/> Federal government      | <input type="checkbox"/> Academic Institution            |
| <input type="checkbox"/> Tribal government       | <input type="checkbox"/> Other (explain)                 |

**Authorized Representative of Sponsor**

Town of New Fairfield

**Name**

John Hodge

**Title**

First Selectman

**Address**

4 Brush Hill Road

**City**                      **State**                      **Zip**

New Fairfield                      CT                      06812

**Phone**

203-312-5600

**Email**

JHodge@NewFairfield.org

**Contact Person (if different from Authorized Representative):**

Town of New Fairfield

**Name**

Ronald Oliveri

**Title**

Selectman

**Address**

4 Brush Hill Road

**City**                      **State**                      **Zip**

New Fairfield                      CT                      06812

**Phone**

203-312-5600

**Email**

RonOliveri@aol.com

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

Ball Pond and Short Woods Brooks Water Quality Improvement and Pedestrian Access

**Project Location**

Attach an 8.5 x 11-inch map or copy of an aerial photograph showing project location and extent. Include pertinent topographic and geographic information, a scale, and north arrow.

State(s), Municipality/ies: New Fairfield, Connecticut

Longitude for approximate center of project area: 41.46 (41 degrees, 27')

Latitude for approximate center of project area: -73.4 (-73 degrees, 29')

**NOTE: If a specific location(s) has/have not been selected yet, include in Part C a narrative describing how project location(s) will be selected.**

**Restoration Priority Category** See Appendix C of these Instructions for Restoration Priority Category Descriptions

**Primary 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**

Candlewood Lake: Short Woods and Ball Pond Brooks are Candlewood Lake's two main "natural" tributaries, providing a large amount of clean water to the lake. This lake receives large quantities of water pumped up from the Housatonic River. As such, the restorative nature of the brooks will provide for the continued maintenance of water quality entering the lake. As well, it is vital that these two brooks be rehabilitated and preserved to protect water quality and provide area residents with clean and naturally vibrant recreational areas.


**Project Budget Summary**

Complete the table below to summarize the budget information that is detailed in Part D: Project Budget Narrative and Forms. Sponsors are advised to complete Part D (Project Budget Narrative and Forms) before filling in the table below.

<b>Housatonic River NRD Funds – Requested</b>	<b>Other Contributions (Committed)</b>	<b>Other Contributions (Not Committed)</b>	<b>Total Project Cost (boxes 1+2+3)</b>
1. From Part D, Table 2, Box 5 \$650,000	2. From Part D, Table 2, Box 6 \$220,000	3. From Part D, Table 2, Box 7 \$300,000	4. From Part D, Table 2, Box 8 \$1,170,000
<b>Amount of Other Contributions to Be Considered as Cost-Matching to NRD Fund Request</b>			
5. If approved, the Town will embark on a capital campaign to acquire matching funding from corporate sponsors to ensure full project funding.			

**Authorizing Statement**

I hereby declare that the information included in this project submission and all attachments is true, complete, and accurate to the best of my knowledge, and that the proposed project complies with all applicable state, local, and federal laws and regulations.


6/14/07  
 \_\_\_\_\_  
 Signature of Sponsor or Sponsor Representative Date  
 \_\_\_\_\_  
 John Hodge, First Selectman  
 Name of Sponsor or Sponsor Representative  
 (Type or print clearly)

**Ball Pond & Short Woods Brooks Water Quality Improvement  
And Pedestrian Access  
Town Of New Fairfield**

**Part B: Project Abstract**

Candlewood Lake is the largest lake in the State. It is manmade, created by pumping water from the Housatonic River. Every year, the water is drawn down and then replenished from waters from the Housatonic River. Pollution from the General Electric plant has directly impacted this man made wonder. It is critical that the two largest tributaries feeding this lake are protected and their overall environment improved to the greatest extent possible through the stabilization and reclamation of portions of their embankments and small ponds, and the removal of invasive species (see photographs section 6).

Trails along portions of the embankments of Ball Pond Brook and Short Woods Brook will connect our Town Center with other town owned and Land Trust properties. This presents educational opportunities for our citizens to learn about the environmental importance of these brooks, their wetlands, and the various types of flora and wildlife habitats. Through the use of a combination of bark chip and natural paths, elevated wooden walkways/observation areas (ADA and Senior Citizen friendly), and informative kiosks throughout, it is the intent to benefit the environment, the health and education of our citizens, and continue the long history of New Fairfield in preserving our water sources and their wetlands.

This project results in the implementation of actual physical restoration of portions of these large brooks and the riparian habitat of various waterfowl, land creatures, and flora. Public participation during and after the completion of the project is a cornerstone of this proposal and we anticipate individual and group involvement.

**Ball Pond & Short Woods Brooks Water Quality Improvement  
And Pedestrian Access  
Town Of New Fairfield**

**Part C: Project Narrative**

**1.0 General Description**

**1.1 Project Goals and Objectives**

The purpose of this application is to preserve, protect, and to restore portions of Ball Pond Brook and Short Woods Brook, which are the two largest tributaries of Candlewood Lake. Since the Lake was created from waters of the Housatonic River and is replenished from those waters, benefits to the two brooks in the project proposal are deemed to offset the injury or loss done to Candlewood from the GE pollution of the Housatonic that was inevitably pumped into this Lake.

One method to be utilized to maintain and to improve the water quality of these brooks is to identify Point Source Pollution or contamination, such as is found at another GE facility in New Fairfield, known as the Druck Building, only a few hundred yards away from Ball Pond Brook. As shown on the 2003 Organics Report from the Connecticut Department of Health (see section 8), volatile organic compounds were found on this site. Continued monitoring of Ball Pond Brook near this facility (see section 8) and investigation as to the source of these contaminants are paramount to maintaining the quality of water flowing into Candlewood Lake.

We believe that the objectives of this proposal (see photographs section 6) – reclamation of embankments, dredging and/or reclamation of two small ponds, removal of invasive species (multiflora rose, phragmites, garlic mustard, Japanese barberry, purple loosestrife, winged euonymous), re-population of species appropriate for water filtration and purification, and the reintroduction of other native flora, will alter the ecological habitat for the better and thus increase the attractiveness of this area to native wildlife species. This objective will have a significant sustainable and measurable benefit to the natural resources flowing into Candlewood Lake, which we believe has been directly

impacted by pollution from two GE facilities, one on the Housatonic, and possibly the one located within New Fairfield itself (see map section 6).

Another goal is to provide healthful recreation opportunities for our citizens. Hiking trails, educational kiosks and signage along the pathways, will provide water based recreation opportunity. Environmental programs involving our youth will be developed. Preserving our environment and offering our citizens this water based recreational and educational opportunity is of such importance that this project has been endorsed by Town and local State government leadership as well as the Planning Commission, Inland/Wetlands Conservation Commission, the Land Trust, as well as other groups and organizations. (see section 5)

## **1.2 Project Scope and Implementation Plan**

### **a. Brief description of the overall approach to implementation**

The approach to implementation as described herein is an overview of what we believe will be a well thought out strategy and timetable involving six phases to be described later. A project Implementation Committee will be formed and report periodically to the Board of Selectmen. It will consist of a member of the Board of Selectmen, our town Grant Administrator, a member of the Land Trust, and members from the Conservation Commission, Water Pollution Control Authority, and Parks and Recreation Commission. An environmental engineer will be contacted and services retained. The order in which the project will be approached will then be determined. Requests for Proposal (RFP) will be published and mailed to appropriate contractors for the various phases of the project. At the same time, public presentations will be given and televised on our local educational access channel and volunteers will be assigned to the project. Cost control procedures and appropriate financial reports will be created. The Implementation Committee will assume oversight responsibilities and hold periodic meetings to discuss progress. Presentations will also be made to the Board of Finance to insure the financial integrity of the project. Our Grant Administrator will make periodic reports as required to the DEP.



b. Project schedule

In term of years, we envision this project taking four years time. Planning will take six to eight months of time and will also include any local regulatory approvals necessary. The implementation phase is weather sensitive and will begin as soon as feasible. If approved in early 2008, we expect completion by 2012. It is anticipated that because of the nature of the work in each phase of the proposal, work will overlap and give us the opportunity for potential savings of time, labor, and equipment. For example, during the work of reclaiming the embankments of portions of the two brooks involved, removal of invasive species may be accomplished at the same time. We are determined to look for any and all possibilities of efficiencies and cost savings. The final phase will include a plan for the future and development of a policies and procedures manual to insure that the work accomplished is cared for and that all project expectations were accomplished. Final budget reports and presentations will be made to the board of Selectmen and Board of Finance.

c. Discussion of major project phases and milestones

**Phase I. Planning, Request for Proposals, Awarding of Contracts**

Based on a favorable award from the grantors, the Town of New Fairfield will embark on a series of project phases. The Town will devise a planning scheme that will allow for the smooth flow of work from phase to phase. In this Planning Phase, the scope of the work will be outlined in fine detail and presented to the Board of Selectmen as well as to the public in a Town Meeting, which will also be televised numerous times. Following approvals, the Town will issue *Request for Proposals*, publicizing the requests as mandated by State Law. The Town expects to secure the services of a project manager, general contractors, suppliers and volunteer coordinators for the various phases of the project. Contracts will be awarded and the Town expects to begin the preliminary work of conducting land surveys, final mapping of the trail system, and identifying those portions of embankments in need of reclamation.

At this time, the Town will also embark upon a two-pronged approach, utilizing volunteer and staff members to assist in a capital campaign to secure matching corporate



funds to ensure against any budgetary shortfalls and to supplement the grant dollars received. The Town will also begin an active volunteer recruiting program that will be designed to aid in the implementation of the trail system. Volunteers will be sought to provide services such as brush and invasive plant clearing and to begin conducting water quality testing on the project waterways. The Town expects to seek the assistance of the University of Connecticut's Botanical Gardens staff to conduct invasive plant identification classes as well as the Town Sanitarian for training of water quality sampling. Additionally, the Town will attempt to secure a partnership with the University in providing assistance for the propagation of needed native plants to be used in restoration efforts. We believe, based upon our prior experiences with "Hidden Valley" (an environmentally protected preserve) that the proposed project will attract young volunteers from the Eagle Scouts, boy Scouts, and Girl Scouts.

Estimated Costs of Phase I: \$65,000 total --- \$25,000 grant plus \$40,000 in kind

## **Phase II. Reclamation of Embankments**

As soon as the weather permits, the Town will begin working on Ball Pond and Short Woods Brooks first by removal of invasive plant species, then by working with contacted companies and volunteers to begin the process of reclaiming sensitive embankments. Portions of these eroded stream banks will be stabilized, employing proven bioremediation strategies and techniques (geotextile fabric; coir log placement parallel to the watercourse; flow redirection veins) and the replacement of exotic invasive species with native hydrophytic and riparian plant species (as available). The criteria for determining the order of which embankments will require attention first will fall upon the contracted environmental consultant. The Town's Inland Wetland's Commission will have final approvals on all proposed work and will provide assistance in the development of management plans for the control of erosion and other issues to minimize any negative environmental impacts. Again, public information meetings and volunteer recruitment and training will continue and volunteer corps, under the leadership of volunteer and town staff leaders, will begin working on clearing the trail areas. Just prior to when the actual reclamation begins, the Town will initialize wildlife counts to use as base for future

wildlife data-gathering programs. We expect conservation easements to be created by the town and donated to this project.

Estimated Costs of Phase II: \$250,000 total --- \$210,000 grant plus \$40,000 in-kind

### **Phase III. Dunham Pond and Route 37 Pond**

The next phase of work will be conducted at Dunham pond and the pond at 33 Route 37, with a concentrated effort to remove non-native plant species and the securing of any sensitive embankments in the area. At this time, any dredging that is required will be conducted by an appropriate contractor, under the guidance of the Town's Inland Wetland's Commission and DEP if necessary. As well, native plant introductions will be conducted in concert with the removal of non-native species. Volunteer and staff corps will work closely with the consultant and project team to ensure that proper techniques are used. We fully expect easements from the Town of New Fairfield and the local Land Trust to be donated to this project.

Estimated Costs of Phase III: \$255,000 total --- \$140,000 grant plus \$115,000 in-kind

### **Phase IV. Natural Trails**

The Town will embark on the installation of the first phase of trails, using the contracted companies and volunteers to provide additional clearing and leveling services for the installation of trails. At this time, the Town will work with volunteer and contracted environmental education consultants in the development of education materials for the proposed educational kiosks, wildlife identification materials and trail maps/pamphlets. The Town expects to work closely with DEP and other state and local agencies to ensure that a meaningful environmental message is created. Educational kiosk designs and the design for the elevated wooden pathways will be created at this point and Request for Proposals will be publicized for this work.

Estimated Costs of Phase IV: \$220,000 total --- \$80,000 grant plus \$140,000 in-kind

## **Phase V. Wooden Pathways and Educational Kiosks**

The installation and the elevated walkways, nature observation decks, and educational kiosks will take place during this phase, utilizing the services of the chosen contractor(s). Work will also continue on the removal of non-native plant species as well as the introduction of native plant species. Water quality monitoring will continue to take place and the Town expects to begin working with middle and high school students in developing a student volunteer corps that will eventually be solely responsible for the water testing that will occur on an ongoing basis. The Town hopes to secure either grants or in-kind donations of water quality monitoring kits from HACH, including mobile water quality laboratories and test kits for the schools. The Town also expects that partial use of the trails will begin in earnest and plans to hold press conferences and ceremonies to inaugurate the new trail system.

Estimated Costs of Phase V: \$290,000 total --- \$190,000 grant plus \$100,000 in-kind

## **Phase VI. On-going**

### **Proposed Programs:**

The Town of New Fairfield expects to instill a sense of pride and ownership of the new trail system within its citizenry, encouraging that volunteer groups will take on various aspects of trail maintenance, including on-going plant removal and introductions, wildlife counts and water quality monitoring.

1) Local and area businesses will be asked to consider in-kind donations on a yearly basis for plant and trail materials.

2) Volunteers, perhaps from the New Fairfield Senior Center, will be trained to provide guided tours and educational programming for area schools and the public at large.

3) Local civic groups, such as the Lions, will be asked to participate in "Adopt-a-Trail" programs and would also receive appropriate training.

4) Scouts have earned merit badges in the past by creating signs identifying various foliage at Hidden Valley. We fully expect similar efforts on their part.

5) High School students are required to perform community service for the town. We anticipate partnering with the school system and give credit toward community service for students who help with this project.

6) Students will be trained in water monitoring techniques.

7) Local Hiking Clubs will be contacted and programs established to secure their ongoing support.

These are just a few of the ideas thus far generated to ensure the long-term success of our proposal.

Estimated Costs of Phase VI: \$90,000 total --- \$5,000 grant plus \$85,000 in kind

**Estimated Total Project Cost: \$1,170,000 --- \$650,000 grant plus \$520,000 in kind In kind expectations are expected to be 80 cents per dollar of grant dollars received.**

d. Identify property purchases, easements rights-of way

The purchase of easements is no longer being considered for this project. We do expect, however, that easements will be donated by the Town of New Fairfield and the local Land Trust to this project.

e. Identify regulatory approvals required

The local Inland/Wetlands Conservation Commission, Zoning Commission, and Planning Commission will be presented with this project for their approval and endorsement. This project fits well into our Ten Year Plan of Conservation and Development. Therefore, we foresee no regulatory issues that would materially change the scope of this project.

## **2.0 Evaluation Criteria Narrative**

### **2.1 Relevance and Applicability of Project:**

#### **2.1.1 Location of Project:**

The project is located in the Housatonic Watershed area and includes major tributaries and wetlands that feed and support the ecology of Candlewood Lake. Candlewood Lake is the largest lake in the State of Connecticut. It is imperative to

remember that it is manmade, created by pumping water from the Housatonic River. Every year, the water is drawn down and then replenished in the springtime - - again from waters from the Housatonic River. Pollution from the General Electric plant has directly impacted this man made wonder. It is therefore critical that the two largest tributaries feeding this lake are protected and their overall environment improved to the greatest extent possible.

The project location is upstream of the Derby Dam within the boundaries of the town of New Fairfield. Furthermore, the project location runs just north of the intersection of Routes 37 and 39 in the center of New Fairfield at longitude 41.46 and latitude -73.4. (see map section 6).

### **2.1.2 Natural Recovery Period:**

The project contains two brooks and two ponds all of which are overgrown in sections with invasive species and exhibit embankment deterioration as well as natural aging ie: filling of the ponds. Without implementation of this project, the ponds will continue to fill in with sediment; the embankments of the brooks and streams will continue to be overrun with invasive species (multiflora rose, phragmites, garlic mustard, Japanese barberry, purple loosestrife, winged euonymous), and the purification affect of the riparian corridor may decline. If unchecked, this process will continue over many years, if not decades. Without this project, there will continue to be deterioration with little or no hope of reversal unless a project, such as proposed, is initiated. The restoration, and stabilization of portions of the embankments of the two brooks and their wetlands as envisioned in this project will be accomplished well within the natural recovery period and is estimated to take four years.

### **2.1.3 Sustainable Benefits:**

This project will clearly result in long-term, self-sustaining benefits and will incorporate appropriate permanent protection measures. We anticipate that the Inland/Wetlands Conservation Commission, Water Pollution Control Authority, Parks and Recreation Committee, and private groups such as the Land Trust will establish

appropriate rules, regulations, and policies for the use of the project area. We have experience in similar projects such as the creation of Hidden Valley. Damage to Candlewood Lake due to the pumping of contaminated waters from the Housatonic, as well as possible migrating pollution from a GE facility along side Ball Pond Brook, will begin to be offset by this project. Encouraging the ecosystem, benefits of filtration through wetlands, ponds, and riparian buffers through sustainable practices is the ultimate goal of this project. Through ongoing inspection and maintenance of the project lands, we anticipate being able to remove invasive species as soon as detected. Our Parks and Recreation Department will be responsible for maintaining the trails and Public Works will make timely repairs to the elevated wooden walkways and observation decks. These activities will be part of the annual budget review process with the Board of Selectmen and will also be dictated by the Policies and Procedures manual to be developed.

#### **2.1.4 Magnitude of Ecological Benefits:**

It is anticipated that such reclamation of the embankments and wetlands of Ball Pond Brook and Short Woods Brook will increase the number and variety of native plants locally and opportunities for wildlife native to the Housatonic eco-region. The benefits of the educational process on the citizenry will further extend this ecological benefit to environmentally sensitive areas outside of the project boundaries, as individuals become better stewards of the environment. The maintenance and improvement of the water quality of these two largest tributaries feeding Candlewood Lake is critical to offsetting the pollution pumped up from the Housatonic River as well as offsetting the possible migrating pollution from the GE facility within New Fairfield that is adjacent to Ball Pond Brook just before it enters the lake. Involving our youth in programs of ongoing water sampling will also instill a healthy respect for the environment at an early age. While it is obviously beneficial to dredge and reclaim a small pond situated along Ball Pond Brook, the less obvious is the long-term benefit that this action will have in providing an improved habitat for wildlife. If necessary, in order to protect the long-term ecological benefits of this project, a conservation easement on the project lands may be donated to the local Land Trust to protect these properties well into the future.



### **2.1.5 Magnitude of Recreational Benefits:**

The project offers three miles of trails and pathways along two brooks. The opportunity to offer our citizens this water based recreational and educational opportunity is of such importance that Town and local State government leadership as well as the Planning Commission, Inland/Wetlands Conservation Commission, Land Trust, and other organizations have endorsed this project (see section 5). The project will facilitate the unification of Town Center, Senior Center Property, and Museum District with the pathways along the stream banks and neighboring wetlands. The project will also include at least two footbridges, the reclamation of embankments, and the dredging of a small pond to bring it back to near original condition that existed 30 years ago when it provided natural wildlife habitats and ice-skating recreation for our citizens. Continuing from the newly created Museum district, pathways and shoreline reclamation will continue east along Ball Pond Brook across Route 39 through wetlands, owned by the local Land Trust, surrounding Dunham Pond and continue to the convergence with Short Woods Brook. We would then create trails and clean up and stabilize the embankment along Short Woods Brook north approximately one mile to land owned by the Town. Through the use of a combination of natural paths, elevated wooden walkways (to be ADA compliant), and informative kiosks throughout, it is the intent to connect several Town properties with Land Trust areas along these brooks for the benefit of the environment, the health and education of our citizens, and the continuation of a long history in New Fairfield of preserving and reclaiming our water sources and their wetlands.

## **2.2 Technical Merit of Project**

### **2.2.1 Technical Feasibility:**

The strategies to address this project are of a low-tech variety, relying for the most part on labor and commonly available machinery under the supervision of qualified personnel and consultants (see section 7). Knowledge of invasive species, their removal, and replacement with pollution/cleansing species is well known to our environmental participants. Stabilization of embankments, nature trails, and wooden (long lasting composites) walkways (for our senior citizens and disabled citizens) will be constructed using approved readily available materials and common techniques. Members of local



conservation and land trust groups will help to oversee this project to a successful conclusion will provide environmental skills and knowledge. Members of our Conservation Commission are also experts in the environmental arena (see section 2.5.1 page 17).

### **2.2.2 Adverse Environmental Impacts:**

This project has no known nor any anticipated unfavorable environmental impact. Quite the contrary, because of the proposed embankment stabilization and educational opportunities, this project will have an extremely favorable impact on the two Brooks and their wetlands and thus favorably impact Candlewood Lake, which has been impacted directly by the GE pollution of the Housatonic River.

### **2.2.3 Human Health and Safety:**

Because of the benefits of protecting and enhancing the quality of water our citizens utilize and the significant water based hiking, ice skating, and other recreational opportunities for our citizens to enjoy in fresh air in a relaxing environment, it is expected that the health and safety benefits will be significantly positive. There are no adverse human health or safety issues associated with this project.

### **2.2.4 Measurable Results:**

We anticipate a favorable ecological impact to Ball Pond Brook, Short Woods Brook, their wetlands, and two small ponds. This will result in protecting the purity of waters entering Candlewood Lake from these two largest of its tributaries. There will be a significant increase of the social use of the project lands. Therefore, we also anticipate a favorable economic impact for our local businesses as more and more people avail themselves of this recreational and educational opportunity. The largest shopping center in our town is immediately adjacent to the project lands.

Results will be monitored and measured by our local Parks and Recreation Commission, Water Pollution Control Authority, and the local Land Trust. Periodic evaluations will be conducted. This will be accomplished through annual surveys, questionnaires, and actual periodic observations of the usage of the project area. Data gathering concerning usage, economic improvements to businesses, establishment of native species, increases in native wildlife, and most important, the maintenance/improvement in the quality of the water entering Candlewood Lake as measured by chemical testing analysis will be conducted. We expect up to 2,000 citizens annually using the project lands. We believe that the overall goals of this project would be satisfied by improvements to the project area and its waterways. Our contingency plan pursues more strenuous efforts to bolster our volunteer work force, reinforce funding campaigns, and to monitor point source pollution for the Candlewood Lake watershed. The project is not time sensitive, but rather will be an ongoing endeavor.

## 2.3 **Project Budget:**

### 2.3.1 **Relationship of Expected Costs to Expected Benefits:**

For each dollar of the grant request, we believe that this project will provide immeasurable benefits both in the short-term and long-term. More than half of the requested funding will be spent for environmental improvements. Economic and social benefits will flow directly from the increased usage of the project area. This project will see social, economic, environmental, and health benefits that will be of significantly higher value than the requested funding. This benefit will continue to accrue well into the future as we anticipate that the project boundaries will be properly maintained and thus continue to attract the benefits anticipated for the first year of full operation. Because of the centralized location of the project lands, the direct access to the commercial establishments within our town center is expected to yield positive economic benefits. Also, as with other public projects, a significant leveraging is anticipated to the extent of 80 cents per dollar of grant - - another indication of a very positive benefit to cost ratio.

### **2.3.2 Implementation Oriented:**

It is anticipated and has been built into the budget that the feasibility study, survey, and design costs will be less than 5% of the total. Implementation costs are expected to be 95%, or the vast majority of the total cost projection. The project team working on this application includes members who will carry forward into the implementation team when the proposal is approved. We have expertise in planning, budgeting, auditing, the environment, Inland/Wetlands regulations, and water pollution issues. We are confident of bringing this proposal to a successful conclusion.

### **2.3.3 Budget Justification and Understanding:**

A detailed numeric discussion of the budget for this proposal can be found in Part D of this application. In general terms, we offer the following comments. We have already touched upon the non-implementation costs being 5% or less of the total project. We anticipate a significant leveraging of each grant dollar through volunteer help and contributions in kind of goods and services equating to 80 cents per grant dollar. It has also been mentioned that the technical requirements of this project are of a "low-tech" variety and that this project relies upon actual labor and readily available equipment for its completion. As such, the majority of the budget as outlined in Part D pertains to labor, materials (primarily composite wood pathways to include our senior and disabled citizens in the scope of this project), and use of excavating equipment. Educational materials and miscellaneous supplies are included in the data but are deemed to be insignificant versus the total project cost. All cost calculations in Part D use assumptions that we feel are reasonable and are derived from benchmarking against similar projects by team members who have expertise in the environment. When approved, we will follow all guidelines of our Town with regards to requests for proposal, purchase orders, expense monitoring, monthly reporting, and complete oversight of the project. Both the Board of Selectmen and Board of Finance will receive periodic financial and progress reports.

### **2.3.4 Leveraging of Additional Resources:**

It is anticipated that matching funds and other forms of funding resources will be available from various governmental sources at the local and state level as well as from

civic and private organizations such as the scouts, volunteers, *Land Trust*, Hiking Clubs, *Community Foundation*, etc. The Town of New Fairfield will commit \$50,000; private fund raising is estimated to bring in another \$50,000 in cash and/or product donations. Town owned properties as well as Land Trust properties will be part of this project and their contributions into this project are valued at \$225,000. Lastly, the time and efforts of the volunteers working on this project over a four-year period is valued at \$195,000. Total in kind contributions of goods and services = \$520,000. This represents 80 cents per dollar of grant monies received. Future ongoing oversight, maintenance, and general care taking through the Park and Recreation Department will add to this leveraged amount.

### **2.3.5 Comparative Cost Effectiveness:**

As of this presentation of the proposed project, it appears that there exists no competing lower cost project within New Fairfield with the same goals as is presented herein. We believe that considering the leveraging of additional resources as outlined above, as well as the favorable long-term environmental benefits, that this project represents an excellent use of the funds requested.

## **2.4 Socioeconomic Merit:**

### **2.4.1 Community Involvement:**

This project, based upon prior history, includes a large community involvement throughout the life of the project. It is anticipated that Conservation Groups, Land Trusts, Open Space advocates, the Boy and Girl Scouts, the Eagle Scouts, many private individuals, the Park and Recreation Committee, etc., will be involved throughout with the ongoing activities contemplated. This is not new to New Fairfield, as such cooperation currently exists with the protection and public events held at our *Hidden Valley Nature Preserve*. The scouts will be asked to provide appropriate signage naming and describing various plant species. Special lectures for our senior citizens will be held. Wooden pathways will enable our disabled citizens to participate in various functions and activities to the fullest extent possible. Walking trails will entice hundreds of new users who currently utilize our High School track for walking exercise. Members of our local Land

Trust, Conservation Commission, town officials, and others are already involved in the preparation of these applications and are committed to be involved through the implementation phase of this project if accepted. Our youth will be trained to take water samples for ongoing monitoring of the quality of the waters of these two brooks. (see Section 1.2.c Phase VI page 7)

#### **2.4.2 Adverse Socioeconomic Impacts:**

There are none. This project proposal has been openly discussed and televised at Board of Selectmen meetings. There are no known negatives or opponents to this proposal. The significant social and economic benefits have been previously touched upon. We cannot conceive of any scenario where there would be an adverse impact due to this project. We look to this project as benefiting the natural environment of our town while at the same time enhancing the quality of life for all citizens who avail themselves of the opportunities presented.

#### **2.4.3 Coordination and Integration:**

This project compliments and even adds value to several existing plans such as: Environmental Improvements, Town of New Fairfield Ten Year Plan of Conservation and Development, Senior Center Project, Museum District, local ordinances regarding inlands/wetlands, the overall responsibility of the Board of Selectmen to provide for the Health and Safety of the Citizens as well as to Protect the Environment. A similar project was completed within the Town decades ago and created *Hidden Valley* which is now safeguarded by a conservation easement. New Fairfield's borders encompass 60% of the shoreline of Candlewood Lake. This project compliments all of our efforts to maintain the quality of the Lake through our support of the Candlewood Lake Authority via budget dollars and lake clean-up day activities. This project also compliments the efforts of the "Grass Carp Program" established at Ball Pond in conjunction with the DEP to reduce the effects of milfoil. Our proposal seeks to maintain and improve the environment of Ball Pond Brook, which originates from Ball Pond.

#### **2.4.4 Public Outreach:**

Information will be disseminated to all citizens through several media: information flyers available at the Library and other Town facilities; newspaper articles; through exposure on New Fairfield's own public access Education Channel to be broadcast and rebroadcast numerous times; through Town meetings and well as public discussions at Board of Selectmen Meetings. At all times, the environmental, health and educational benefits of this proposal will be explained. A Town Meeting will be called by the Board of Selectmen to approve setting aside the \$50,000 of town funds previously discussed. This project will connect several major and highly utilized town owned properties. As such, the public will utilize this project by nature of its easily accessible location and multiple entry points. It is fully expected that this project will capture the interest of many diverse groups including our disabled citizens, senior citizens, scouts, civic groups such as the Lions, members of the Youth Commission, (see Phase VI page 7; also section 5), those who value fresh air and exercise, those who value educational opportunities, and those who just value a quiet moment.

#### **2.5 Applicant Implementation Capacity**

New Fairfield has a long proud history of success in the planning for and achievement of the protection of our natural environment. It is estimated that the boundaries of New Fairfield contain 17% of non-contiguous conservation lands, parks, and dedicated open space. New Fairfield also took a lead role in procuring a conservation restriction on the land under the waters of Candlewood Lake. Including this conservation easement, 30% of the geographic area of our Town is protected for the use of future generations of our citizens. A goal is to increase this by another 10% over the next ten years. Our Inland/Wetlands conservation regulations are among the strictest in the area. We have reclaimed and maintain an area of wetlands called *Hidden Valley* that is considered a jewel of our Town. We are the first to have cooperated with the State of Connecticut in the *Grass Carp Program* for our largest pond, *Ball Pond* (the origin of Ball Pond Brook) to control the spread of milfoil weeds. Our positive results of this program is closely monitored and supported by the DEP of the State of Connecticut and is considered a resounding success.



New Fairfield has taken the lead role in the preservation of *Vaughn's Neck*, the last remaining large open space on *Candlewood Lake*. This preservation, and the support that our taxpayers give to the *Candlewood Lake Authority* is of great importance to us as New Fairfield borders on 60+% of the shoreline around this man-made wonder. The local independent *Land Trust* received its first donation of open space from New Fairfield, and continues to be the beneficiary of land donations from our Town. This same trust holds a conservation easement on *Hidden Valley* to protect it evermore for the benefit of future New Fairfield generations. We are proud of our history of success. We have the individuals knowledgeable in overseeing such environmental projects. We have the Town Boards, private organizations, and volunteers necessary for the success of this project.

### **2.5.1 Technical Capability of Applicant/Project Team**

As indicated above, we have the technical capabilities in dealing with environmental projects. Members of our own Conservation Commission, Water Pollution Control Authority, members of our Land Trust and many of our private citizens have the expertise to see this project through to a successful conclusion. Project team members are:

**Tom Quigley** --- graduate of Bucknell University, with a degree in Electrical Engineering; serving as Commissioner on The New Fairfield Inlands/Wetlands Conservation Committee; serving as a Commissioner on The New Fairfield Water Pollution Control Authority; served as instructor White Water Rafting for the University of San Francisco; member of *Save The Bay* San Francisco, CA.

**Ernest Fabrizio-Garcia** --- BA University of Texas at Austin; MS California State University; held positions at the Zoological Gardens and the Lindsay Wildlife Museum (museum is dedicated to educating the public about native California fauna and flora, and includes one of the largest wildlife rehabilitation hospitals in the country. Ernest was the director of Education and Exhibits for the Museum and then served as the Exhibits Consultant, creating educational programming and exhibits that focused on environmental and sustainability issues. The programs he directed were aimed at school-age children as well as adults, and included classes in animal husbandry and rehabilitation, scientific analysis of ecosystems and biomes in the greater San Francisco Bay Area and school-standards based curriculum development and implementation in the biological sciences. He was also in charge of the educational programming at two man-made wetlands at Dow Chemical and Central Contra Costa County Sanitary District, both of which were created to purify water leaving the physical plants as well as to create suitable habitat for native California wetland flora and fauna. His final project with the museum was the development of a 2,000 square foot exhibit that highlighted the past 50 years of environmental milestones. The exhibit is currently on tour in the US. Ernest also has extensive experience in non-profit management, grant writing and administration. He has



managed programs with budgets over \$1M and has successfully written many grant proposals, including a \$3M grant for new audience development and education in the arts.

**Jeff Main** --- has an undergraduate degree in Biology and Outdoor Education (Lehman College, CUNY), and a graduate degree (Western Connecticut State University) in Environmental Studies. Jeff is the Senior Curator at Westchester County Parks Conservation Division with 28 years of experience. Duties include: Natural Resource Management Plans; and Biodiversity Inventories on County Parks and other lands within the County. Currently engaged in research on Urban/Suburban Coyote study in cooperation with Cornell University. He is a member of the Westchester County and Hudson Valley Climate Change and Sustainability Task Force, the Bronx River Restoration Project, and is a board member of the Long Island Sound Stewardship System Work Group, which led to Federal Legislation. He is a member of the NYS Invasive Plant Council, the Hudson Estuary Biodiversity Committee, and is a NYSDEC Region 3 Fish and Wildlife board member for 5 years.

Jeff has served on New Fairfield Inland/Wetlands Commission for 8 years and is vice-president of New Fairfield's Land Trust.

**William S. McCann III** --- has owned and operated his own commercial photo lab, display graphics and fine art printing company since 1979. He is an avid nature photographer, a member of the Society of Photo Finishing Engineers and played a key role in forming the Digital Arts Training Academy (D.A.T.A.) along with other business representatives in partnership with the Naugatuck Valley Technical Community College.

William's strong interest in nature led to him being one of the founding members of the New Fairfield Land Trust in 1996 and he has been its President since 1997. Under his leadership the NFLT has protected over 260 acres in the town of New Fairfield. He has attended several workshops and seminars on conservation and planning including the Connecticut DEP sponsored Coverts Project. McCann helped to form the Hidden Valley Advisory Board and is currently a trustee on the board of Preserve New Fairfield, a local organization focused on the preservation of historic buildings and establishment of a Historic Museum District in New Fairfield.

**Ron Oliveri** --- Is our project team leader. He has a BA degree in Accounting and an MBA in Finance. Ron has over twenty-five years of diverse experience in the financial field and has held titles including Manager of Financial Planning and Analysis, Manager of Strategic Planning and Budgeting, Accounting Manager, and Manager of Business Analysis. He has analyzed and reported on numerous construction and acquisition projects ranging from a few hundred thousand dollars to \$250 million. He has experience in work process analysis, auditing, monthly management reporting, budget control and analysis. In 1993, Ron embarked upon an independent consulting career and includes Chase Manhattan Bank as one of his clients, where he lead a multi-corporate trouble-shooting team and reconciled \$125 million of accounting issues. During this same period, he also managed to start two small businesses.

Ron also has governmental experience that includes two years on New Fairfield's Board of Finance. He has served the last eight years as Selectman. Thus, he is familiar with the budgetary requirements and operational components of Town Government.

### **2.5.2 Administrative Capability of Applicant/Project Team**

Members of this project team also have expertise in running businesses and are themselves, managers and administrators. Members of this project team also have educational and business background in financial planning, budgeting and project reporting. (please refer to the brief biographical summary of each member included in the previous section).

### **2.5.3 Project Commitments**

This project has received commitments (see section 5) from the Board of Selectmen, and individual members of the following: Planning Commission, Youth Commission, Park and Recreation Commission, Inland/Wetlands Conservation Commission, Water Pollution Control Authority, and Senior Citizen Center. This project has also received commitments from the following private organizations: New Fairfield Land Trust, and Preserve New Fairfield. In addition, a local nursery and a local contractor have given their promises of support. We also anticipate the support of the Scouts who have earned merit badges working on projects at the Town's Hidden Valley Nature Preserve. The Lion's and other civic groups will also be approached for their support of this project. We are also proud of the support of this project by State Representative Carson who has been in the forefront of many of New Fairfield's civic projects. Lastly, New Fairfield residents have a history of coming together and volunteering their time for community based projects such as the one being proposed. The project team leader, Selectman Ron Oliveri, has committed to volunteer his time and oversee this project to its conclusion. It is expected that a project team of volunteers will be in place to assist Selectman Oliveri in providing oversight and budgetary control.

### **3.0 Land Acquisition Projects**

The proposed project has been scaled down to exclude the need for easements. There are no purchases of private land contemplated or necessary for this project. It is expected, however, that the Town and the local Land Trust will make donations of easements.

#### **Contingency Action Plan:**

The Town of New Fairfield, in conjunction with our strong partnership with the New Fairfield Land Trust, will commit to a reasonable budget after the grant approval in order to provide for ongoing maintenance and improvements. This would not be considered unusual for it fits into the overall budget requirements to care for and maintain the Town's infrastructure and assets. It is fully expected that there will be few surprises because of the current level of knowledge that exists on several boards such as the *Water Pollution Control Authority*, the *Inland/Wetlands Conservation Commission*, the *Planning Commission*, *Parks and Recreation Committee*, and the *Candlewood Lake Authority* with input from our local private *Land Trust Organization*. A *Project Oversight Committee* will be established to continuously monitor project parameters and report to the Board of Selectmen on a regular basis as to the progress being made. Any concerns will be addressed promptly to insure that the project meets all agreed upon deadlines and cost parameters.

**Ball Pond & Short Woods Brooks Water Quality Improvement  
And Pedestrian Access  
Town Of New Fairfield**

**Part D: Project Budget Narrative and Forms**

The proposed project has been constructed in six phases. Throughout all six phases, it is anticipated that there will be significant volunteerism and donations of in kind goods and services. New Fairfield citizens, businesses, and civic organizations have a history of supporting community wide projects. Therefore, we are pleased to submit a budget for your approval that includes a significant leveraging of resources per dollar of grant requested. To be more specific, for each dollar of grant, this project is estimating 80 cents of volunteer donations of labor and other goods and services. We believe that this may very well be a conservative assumption.

The following is a brief overview of how the total dollars anticipated for this project have been established.

For volunteer labor for reclamation and trails: \$25/hr fully absorbed (labor plus assumed taxes and benefits), which we consider a fair representation for this level of volunteer help.

The professionals who have volunteered their time to this project are charged out at \$50 per hour fully absorbed rate that is substantially below rates they charge to outside clients. This project team is comprised of professionals of varying disciplines who have experience in consulting.

Timing of Phases (weather dependent):

Year 1:	Phase 1: 100%	Phase 2: 50%	
Year 2:	Phase 2: 50%	Phase 3: 70%	
Year 3:	Phase 3: 30%	Phase 4: 70%	
Year 4:	Phase 4: 30%	Phase 5: 100%	Phase 6: 100%

We believe that the budgets as submitted herein are reasonable expectations based upon the collective thought process of the project team. We will monitor the progress of each phase carefully to ensure that budget requirements are achieved. The Town's commitment of \$50,000 cash can be moved from one phase to another if budgetary issues so dictate.

**Major Budget Assumptions By Project Phase:**

**Phase 1 --- Planning, Request for Proposals, Awarding of Contracts**

- 1) Stipend for an outside environmental expert for overall project review.  
\$20,000 NRD Funds
- 2) \$5,000 for materials and supplies. \$5,000 NRD Funds
- 3) Equivalent of 15 days professional volunteer work on project team for five members  
 $\$50 \times 15\text{days} \times 8\text{hrs} \times 5 \text{ members} = \$30,000$  committed by project team
- 4) Equivalent of 25 days of as of yet unidentified help in environmental affairs  
 $\$50 \times 25 \times 8 \text{ hrs} \times 1 \text{ person} = \$10,000$  not committed contribution of time.

**Total NRD Funds: \$25,000      Total Other: \$40,000**

**Phase 2 --- Reclamation of Embankments**

Of the 2-1/4 miles of brook embankments in the project boundary, we estimate that 2/3 or 1.5 miles will need some form of reclamation. The cost of \$3,000 per 100 feet is an extrapolation of two projects investigated by one of our team members. These projects involved very serious reclamation issues or extra attention to esthetics, neither of which are issues we believe are facing us in this project. This assumption includes contracted man-hours of labor and usage of equipment.

Approximately 1.5miles of embankments. Assumption of \$3,000 per 100 feet  
 $((1.5 \text{ miles} \times 5,280 \text{ ft}) / 100) \times \$3,000 = \$240,000 + \$10,000 \text{ misc} = \$250,000$

\$210,000 NRD funds + \$10,000 cash committed from Town plus  
\$30,000 (1,200 man hours x \$25 and/or equipment usage anticipated in-kind labor and use of equipment as of yet not committed)

**Total NRD Funds: \$210,000      Total Other: \$40,000**

### Phase 3 --- Pond Reclamation

- 1) Small pond to be donated by Town. Town Meeting may be required to establish a permanent conservation easement. Committed value of Pond estimated at \$50,000.
- 2) Committed Town cash contribution is \$10,000
- 3) Surface area of pond estimated to be 10,000 square feet. Cost of dredging assumed to be \$15 per square foot of surface. Depth will determine final cost. Contingency = \$15,000 (primarily cost escalation)  
 $\$15 \times 10,000\text{sq ft} = \$150,000 + \$15,000 = \$165,000$

\$30,000 (1,200 man hours x \$25 and/or equipment usage anticipated in-kind labor and use of equipment as of yet not committed)

**Total NRD Funds: \$140,000      Total Other: \$115,000**

### Phase 4 --- Natural Pathways

The assumption is for 2 miles of natural pathways constructed using recommended techniques of the *Connecticut Forest and Park Association* for Trail Construction and Maintenance. Key assumption: Cost per 100 ft = \$450

- 1)  $((2 \text{ miles} \times 5,280 \text{ ft}) / 100) \times \$450 = \$50,000$  plus \$10,000 replanting plus \$25,000 for two bridges plus \$10,000 benches, railings, kiosks, and signage plus \$15,000 for other appropriate materials as needed and contingency = \$110,000
- 2) \$45,000 in kind donation of land easement from Town
- 3) \$45,000 in kind donation of land easement from local Land Trust.
- 4) \$20,000 (800 man hours x \$25 and/or equipment usage anticipated in-kind labor and use of equipment as of yet not committed)

**Total NRD Funds: \$80,000      Total Other: \$140,000**

## Phase 5 --- Wood Paths and Kiosks

We assume ¼ mile of wooden walkways and observation decks that will be senior citizen and disabled citizen friendly. Walkways will be primarily of composite wood material that will last longer than regular pressure treated wood. However, labor is also more expensive due to the required drilling for screws to fasten the boards.

- 1) Major assumption: average current pricing from Home Depot (see example section 7) for 6 x 12, 8 x 12, and 12 x 12 size composite decking 3 feet elevated above ground surface without labor = \$1,000. Labor assumed to be an additional average of \$800 per 12-foot length.

1)  $(5280 \text{ ft} \times \frac{1}{4}) / 12 = 110 \times \$1,000 = \$110,000$  wood

2)  $(5280 \text{ ft} \times \frac{1}{4}) / 12 = 110 \times \$800 = \$88,000$  labor

3) \$22,000 site work/other materials and supplies

4) \$20,000 inflation for two years @10%

5) \$20,000 committed cash donation from town.

6) \$30,000 not yet committed labor and in kind product from volunteers. (1,200 hrs @ \$25 = \$30,000)

**Total NRD Funds: \$190,000      Total Other: \$100,000**

## Phase 6 --- Wrap-up, Going Forward

Total for this phase = \$90,000

- 1) \$5,000 NRD funds for educational supplies and classes for our youth to learn how to monitor water quality through sampling.
- 2) \$10,000 of volunteer help committed to this phase of project.

$25 \text{ man days} \times 8 \text{ hrs} \times \$50 \text{ per hr} = \$10,000$

- 3) \$75,000 as of yet not committed dollars for intermediate funding of proper maintenance for at least 5 years. Corporate matching funds will be sought.

**Total NRD Funds: \$5,000      Total Other: \$85,000**



**Table 1: NRD Funding Allocation By Fiscal Year**

**Project: Ball Pond & Short Woods Brooks Water Quality Improvement  
And Pedestrian Access**

**Sponsor: Town of New Fairfield**

	<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>	<u>Year 4</u>
<b>A</b>				
Salaries				
<b>B</b>				
O/H				
<b>C</b>				
Contracted Services	\$100,000	\$143,000	\$48,000	\$74,000
<b>D</b>				
Supplies, Mat'l, Equip.	\$30,000	\$60,000	\$50,000	\$15,000
<b>E</b>				
Travel				
<b>F</b>				
Wood Paths				\$110,000
Inflation				\$15,000
<b>G</b>				
Educational				\$5,000
<b>Total By Fiscal Year:</b>	\$130,000 (1)	\$203,000 (2)	\$98,000 (3)	\$219,000 (4)
			<b>Grand Total:</b>	<b>\$650,000</b>

**Table 2: Project Budget Summary By Task And Funding Source**

**Project: Ball Pond & Short Woods Brooks Water Quality Improvement  
And Pedestrian Access**

**Sponsor: Town of New Fairfield**

<b>TASKS</b>	<b>NRD Funds</b>	<b><u>Other Contributions</u></b>		<b>Total</b>
		<b>Committed</b>	<b>Not Committed</b>	
<b>Planning, RFP's, Contracts</b>	<b>\$25,000</b>	<b>\$30,000</b>	<b>\$10,000</b>	<b>\$65,000</b>
<b>Reclamation of Embankments</b>	<b>\$210,000</b>	<b>\$10,000</b>	<b>\$30,000</b>	<b>\$250,000</b>
<b>Pond Reclamation</b>	<b>\$140,000</b>	<b>\$60,000</b>	<b>\$55,000</b>	<b>\$255,000</b>
<b>Natural Pathways</b>	<b>\$80,000</b>	<b>\$90,000</b>	<b>\$50,000</b>	<b>\$220,000</b>
<b>Wood Paths / Kiosks</b>	<b>\$190,000</b>	<b>\$20,000</b>	<b>\$80,000</b>	<b>\$290,000</b>
<b>Wrap-UP, Ongoing</b>	<b>\$5,000</b>	<b>\$10,000</b>	<b>\$75,000</b>	<b>\$90,000</b>
<b>Total By Source:</b>	<b>\$650,000<sup>(5)</sup></b>	<b>\$220,000<sup>(6)</sup></b>	<b>\$300,000<sup>(7)</sup></b>	<b>\$1,170,000<sup>(8)</sup></b>



## Town Of New Fairfield

TOWN HALL  
4 BRUSH HILL ROAD  
NEW FAIRFIELD, CT 06812

(203) 312-5600

Selectmen's Office

To: Connecticut Department of Environmental Protection  
Administrative Trustee  
Mr. Michael J. Powers

Subject: *Ball Pond and Short Woods Brooks Water Quality Improvement and  
Pedestrian Access Project*

Dear Mr. Powers,

As First Selectman of New Fairfield, I am writing to assure you of the full support of the entire Board of Selectmen for this project. In fact, Selectman Ron Oliveri is the project leader. Not only will this project mitigate, to some extent, the pollution of Candlewood Lake from the Housatonic River, (the waters of which are pumped directly into the lake), it will assure the continued quality of water of these two brooks as they go past another GE facility in our town which has also been found to have pollutants on site.

I can also attest to our intent to help fund this project with a \$50,000 request to our Board of Finance. The town will donate project lands in excess of that amount through conservation easements. If our history of past projects is any indication, we anticipate a substantial community involvement in the environmental protection of these two brooks and the creation of numerous educational and recreational opportunities that will benefit generations to come.

Yours truly,



State of Connecticut  
CONNECTICUT GENERAL ASSEMBLY  
STATE CAPITOL  
HARTFORD, CONNECTICUT 06106-1591

June 10, 2007

Department of Environmental Protection  
State of Connecticut  
Attn: Michael J. Powers, Administrative Trustee

Re: Ball Pond & Short Woods Brooks Water Quality Improvement & Pedestrian Access, Town of New Fairfield

Dear Mr. Powers:

We are pleased to write in strong support of the town of New Fairfield's grant request to protect and improve to the greatest extent possible Ball Pond and Short Woods Brooks, two of the largest tributaries feeding Candlewood Lake. As you are likely aware, Candlewood is the largest man-made lake in the state of Connecticut, greatly impacted by waters from the Housatonic River, as there is a routine drawdown and replenishment from the Housatonic.

We applaud the town for its efforts toward the stabilization and reclamation of the embankments and small ponds in these two brooks and for the intended removal of invasive species. Two to three miles of trails along the reclaimed embankments of these brooks will connect with the New Fairfield Town Center and with other essential town-owned properties, thereby offering a wonderful educational opportunity for not only New Fairfield residents, but for visitors as well.

The New Fairfield community, in this grant application, has demonstrated its concern for the environment and the health and education of its citizens. We encourage your favorable response and look forward to hearing from you should you have questions regarding our comments on this most worthwhile project.

Sincerely,

Handwritten signature of Mary Ann Carson in cursive.

Mary Ann Carson  
State Representative  
108<sup>th</sup> District

Handwritten signature of David Cappiello in cursive.

David Cappiello  
State Senator  
24<sup>th</sup> District

Handwritten signature of Janice Giegler in cursive.

Janice Giegler  
State Representative  
138<sup>th</sup> District



## **The Planning Commission**

**Town of New Fairfield**

**New Fairfield, Connecticut 06812**

May 31, 2007

**Re: Ball Pond and Shorts Woods Brooks Water Quality Improvement and Pedestrian Access**

**Mr. Michael J. Powers  
Administrative Trustee**

Dear Mr. Powers,

I am writing to you in support of the above-mentioned project. As Chairman of the New Fairfield Planning Commission, I feel that this project represents a critical component of our "Ten Year Plan of Development", which calls for the creation of a trail system from the center of town along the two brooks within the project boundaries. The project as outlined meets the environmental, educational, and recreational opportunities as envisioned in the town approved "Ten Year Plan of Development". At this time, I cannot speak for the entire membership of the Planning Commission. I do, however, look forward to this project's being brought before the Commission and I am personally excited about the possibilities that will be afforded our town.

Sincerely,

**Phillip A. Nelson  
Chairman**

**Cc: R. Oliveri  
T. Quigley**



# THE PARKS AND RECREATION COMMISSION

NEW FAIRFIELD, CONNECTICUT 06812

4 Brush Hill Road

May 31, 2007

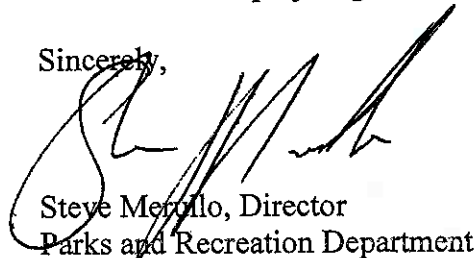
Connecticut Department of Environmental Protection  
Administrative Trustee  
Mr. Michael J. Powers

Dear Mr. Powers,

As the Director of the Parks and Recreation Department of New Fairfield, I can assure you of our full support of the proposed project. If approved, this project will provide for the continuing protection of these two important waterways while at the same time establishing a trail system that will offer many recreational and educational benefits to our citizens to enjoy.

As Director, I am committed to having my department provide oversight to the project lands and can assure you of the work and dedication of volunteers now and into the future to properly maintain and enhance the project goals.

Sincerely,



Steve Merullo, Director  
Parks and Recreation Department



June 4, 2007

Connecticut Department of Environmental Protection  
Mr. Michael J. Powers

Re: Ball Pond & Shortwoods Brooks Project

Dear Mr. Powers,

Preserve New Fairfield, Inc. is an organization dedicated to the safeguarding of our town's history through the preservation of historical buildings, the recording and sharing of our written history, and the creation of educational opportunities for our citizens. To this end, we have been instrumental in helping to create our town's first Historic District, and have been able to donate tens of thousands of dollars for the preservation of two historic buildings dating back to the early 1800's.

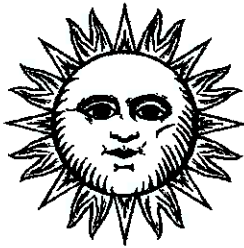
The proposed project is enthusiastically endorsed by our organization. Much of the project land is directly adjacent to the Historic District. In fact, the proposed reclamation of a small pond adjacent to this district will return this locale to a state that existed thirty years ago when our citizens used this area for summer picnics and winter ice-skating. We can think of no better way to create an improvement to the environment while at the same time providing for significant opportunities for recreational and educational opportunities for our citizens.

Preserve New Fairfield, Inc. will pledge its support of this project through volunteer help as well as through fund raising activities. We urge your favorable review and recommendation of support for this important undertaking.

Sincerely,

Susan Monshaw  
President





## **Senior Sunshine Center of New Fairfield**

---

**Heritage Plaza 28 Route 39  
New Fairfield, CT 06812**

Tel: 203 312-5665 Fax: 203 312-5667

June 4, 2007

Mr. Michael J. Powers  
Administrative Trustee  
CT Department of Environmental Protection

Dear Mr. Powers:

As the Director of the New Fairfield Senior Center, I can tell you that the entire staff and many of our seniors have already expressed their full support of the *Ball Pond and Short Woods Brooks Water Quality Improvement and Pedestrian Access Project*. This project will have a lasting effect on our quality of life by providing numerous outdoor activity possibilities that are not only healthful, but also mentally stimulating and emotionally rewarding.

I would like to point out our Senior Environment Corps, a group formed 3 years ago within our Senior Center. These volunteers are dedicated to the maintenance of water quality in the area. To that end they have already forged relationships with the New Fairfield Health Department, the Candlewood Lake Authority, and the Ball Pond Advisory Committee. In 2006, the Senior Environment Corps received an Outstanding Program Award from the CT Association of Senior Center Personnel. This week, the group is receiving the DEP's GreenCircle Award at Dinosaur State Park.

The Environment Corps is an example of our excitement about the role seniors can have. We are anxious to learn about the natural environment immediately adjacent to our new Senior Center. We envision the opportunity to conduct walking tours along the proposed wooden pathways. We are committed to working closely with the project team to see this proposal to a successful conclusion.

Sincerely,

  
Kathy Hull  
Director  
New Fairfield Senior Center

*New Fairfield Youth Commission  
4 Brush Hill Road  
New Fairfield, CT 06812*

June 1, 2007

To: Mr. Michael J. Powers

Dear Mr. Powers,

As the Chairperson and co-founder of the New Fairfield Youth Commission, I would like to voice my wholehearted support for the Ball Pond and Short Woods Brooks project. These brooks and the surrounding properties are adjacent to the proposed new Youth Center. The project to create hiking trails, observation decks and nature walks around the brooks and pond will provide immeasurable opportunities for the youth of our town. I am excited to think of the teaching opportunities this would provide: our youth could learn how to create a trail system that is respectful of the nature around it and then they participate in the work involved. We could teach them how to conduct water quality sampling and make that an ongoing project for them. I applaud this project's aim to create healthful recreation and educational opportunities for our youth because this will give them an early start to a lifelong appreciation of our surroundings and it will teach them the importance of environmental protection.

On behalf of the youth of the town of New Fairfield, I ask that you give your approval and support to this project's proposal.

Thank you.

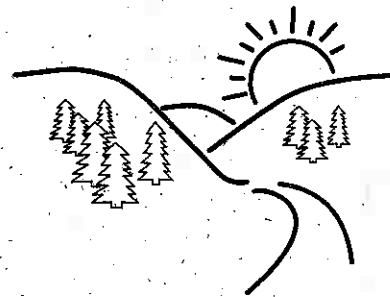
Sincerely,



Régine Lambrech, Ph.D.  
Chair, New Fairfield Youth Commission

# New Fairfield Land Trust

*Preserving Our Future*



Connecticut Department of Environmental Protection  
Mr. Michael J. Powers  
Administrative Trustee

Re: Ball Pond & Short Woods Brooks Reclamation Project

June 5, 2007

Dear Mr. Powers,

The New Fairfield Land Trust is an organization dedicated to the safeguarding of our town's natural resources through the preservation of open space and providing environmental educational opportunities for our citizens. Since 1996, we have been active in acquiring open space to protect natural habitats and to allow for passive recreation for our citizens to enjoy. We are also proud of the conservation easement granted by the town to protect Hidden Valley Nature Center for future generations.

We would like to add our support and endorsement for the proposed project. We feel that the protection of Ball Pond Brook and Short Woods Brook is an important and worthy goal. So much so that we have acquired several properties that border these two waterways and the aquifer that that runs parallel to Short Woods Brook.

A representative of our organization is already a member of the project team and we pledge to continue our support through volunteer efforts as well as using Land Trust property for the creation of pathways along Short Woods Brook and aquifer. We look forward to continuing the long standing relationship we have with the town in providing for the protection of our environment and natural resources.

We ask for your support of this project and look forward to your continuing interest in the protection of these two important tributaries of Candlewood Lake. Thank you for your consideration.

Sincerely,

A handwritten signature in black ink that reads "William S. McCann III". The signature is written in a cursive, flowing style.

William S. McCann III  
President

# DOM'S GARDEN CENTER

*Complete Line of Gardening Supplies*

49 PADANARAM ROAD  
DANBURY, CT 06811

(203) 744-6755

June 1, 2007

Dear Mr. Powers,

I am the owner of Dom's Garden Center and have been an ongoing contributor of goods and services to the Town of New Fairfield. It is with great pleasure that we endorse this project and I look forward to continuing our close working relationship with the town as this project moves forward. It will provide many opportunities for citizens of all ages and at the same time it will protect the environment. I hope that we can count on your favorable review and support of this proposal.

Thank You,

A large, stylized handwritten signature in black ink, appearing to be the name of the owner of Dom's Garden Center.



**NEW FAIRFIELD  
CANDLEWOOD LIONS CLUB**  
PO Drawer G, New Fairfield, CT 06812  
[www.candlewoodlions.org](http://www.candlewoodlions.org)

Jean Knopf  
President, 2006-2007

June 10, 2007

Mr. Michael Powers  
Administrative Trustee  
Connecticut Department of Environmental Protection

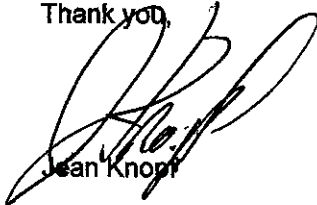
Dear Mr. Powers,

The Candlewood Lions Club is pleased to offer support for the Ball Pond and Short Woods Brooks proposal.

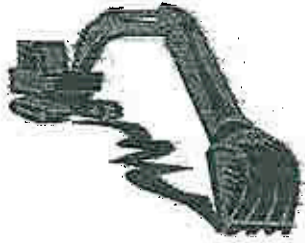
We have a long-term history of support to our town through civic and social activities and anticipate a very good response for volunteer help in bringing the project to completion. The opportunities for environmental, educational and recreational activities will be numerous and greatly benefit current and future generations.

On behalf of the Candlewood Lions I urge your approval of funding for this proposal

Thank you,



Jean Knopf



**SHEP'S LLC**

5 Middleton Dr  
New Fairfield, CT. 06812  
(203) 746-5056  
CT license #003549

June 11, 2007

Dear Mr. Powers,

I am willing to volunteer my professional services to the Town of New Fairfield for The Ball Pond and Shortwoods Brooks Water Quality Improvement and Pedestrian Access Project. This project which the town is interested in is something that I am in support of, and would like to partake in.

Thank You,

A handwritten signature in dark ink, appearing to read "William F. Schoepp". The signature is fluid and cursive, with a large, sweeping initial "W".

William F. Schoepp  
SHEP'S LLC

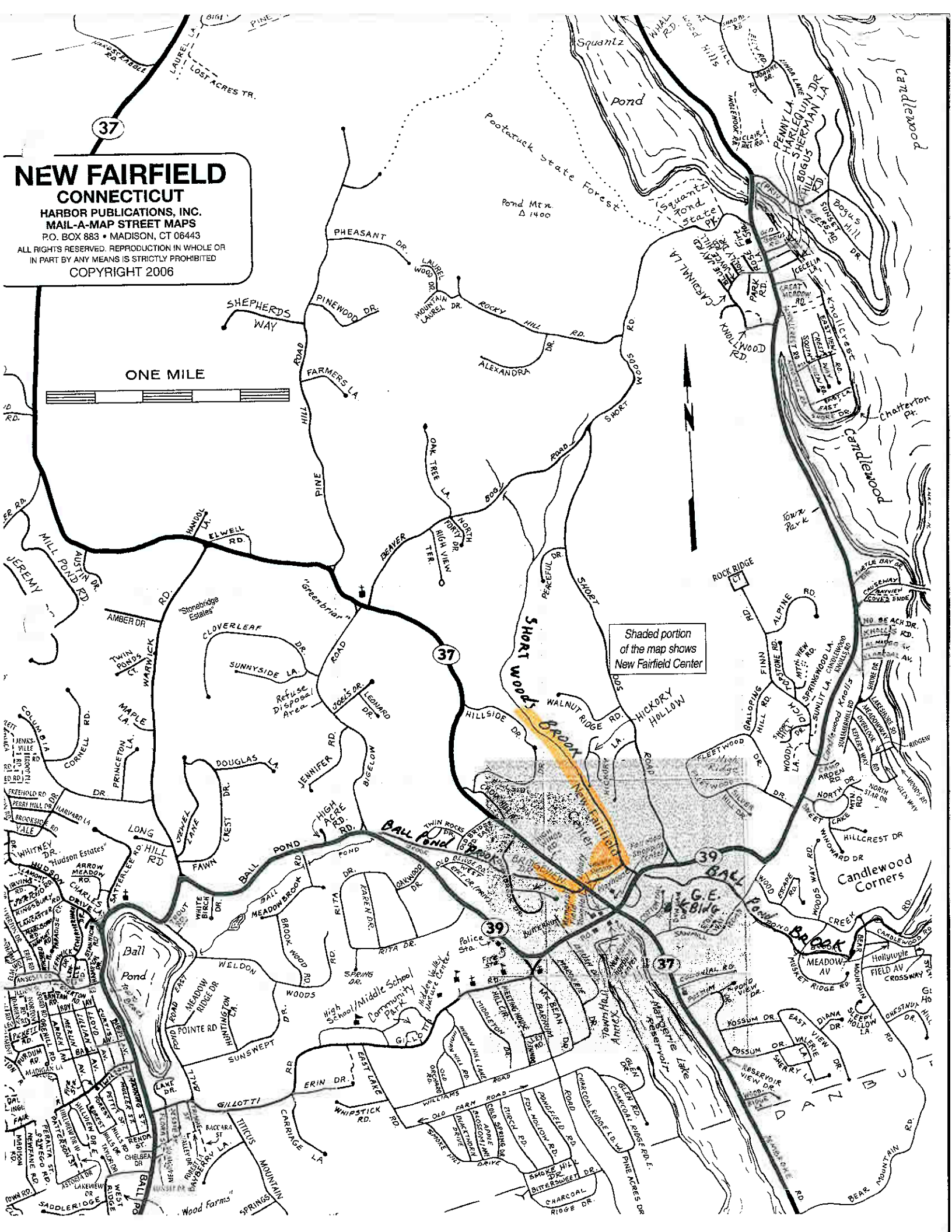


# NEW FAIRFIELD CONNECTICUT

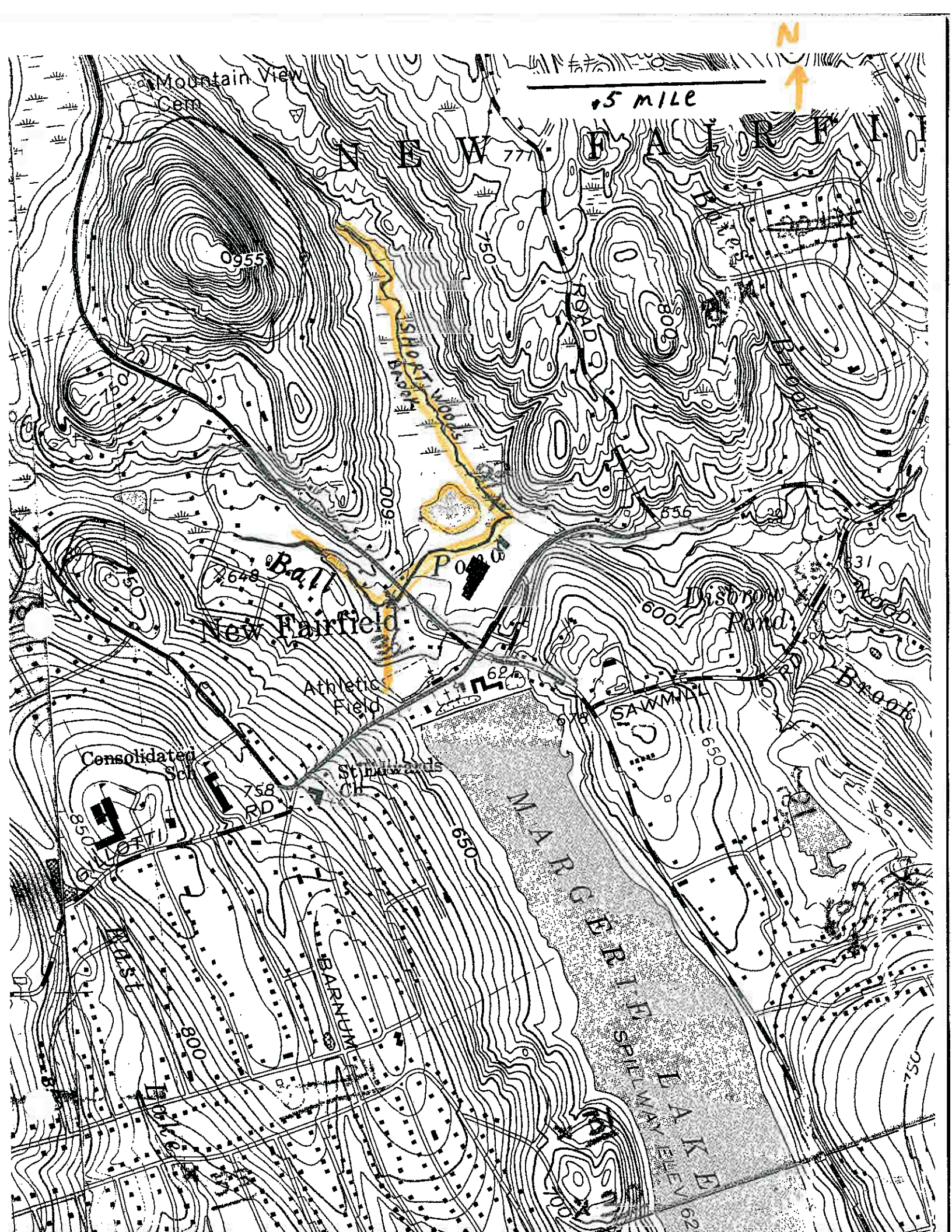
HARBOR PUBLICATIONS, INC.  
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P.O. BOX 883 • MADISON, CT 06443  
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IN PART BY ANY MEANS IS STRICTLY PROHIBITED  
COPYRIGHT 2006



Shaded portion  
of the map shows  
New Fairfield Center







Mountain View  
Cem

0.5 MILE



NEW FAIRFIELD

955

750

800

SHORTS  
BROOK

556

Ball  
New Fairfield

Pond

Disson  
Pond

Athletic  
Field

SAWMILL

Brook

Consolidated  
Sch

St. James  
Ch

MARGUERITE  
SPILLWAY  
LAKE

West  
Hartford  
RD

BARNUM  
RD

800

602

750



# Ball Pond & Short Woods Brooks Water Quality Improvement And Pedestrian Access



Ball Pond Brook: stream banks in need of restoration



39 Route 37, New Fairfield Senior Center and Museum District Pond  
(fed by Ball Pond Brook)



Ball Pond Brook at 39 Route 37: further examples of banks needing restoration



Ball Pond Brook nearing the convergence of Shortwoods Brook at Dunham Pond

# Ball Pond & Short Woods Brooks Water Quality Improvement And Pedestrian Access



Ball Pond Brook: non-native and invasive plants require removal and replanting with native plant species.



Dunham Pond: species to be removed from the area include multiflora rose, bittersweet honeysuckle and phragmites. The area is host to a multitude of wildlife, including many species of waterfowl.



Ball Pond Brook nearing Dunham Pond: Water quality and clarity is evident and restoration efforts are meant to protect and further enhance it.



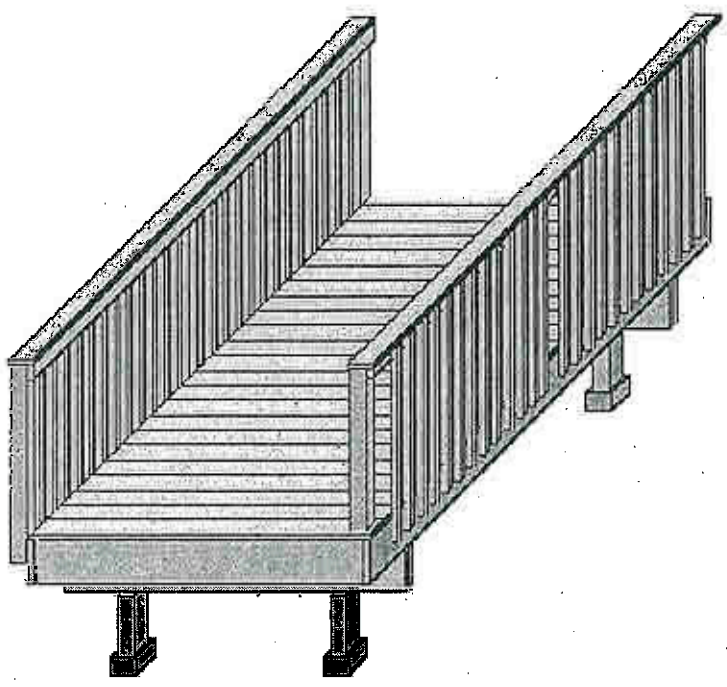
Dunham Pond: invasive species of plants that require removal and replanting with native species.

The Home Depot # 6209  
114 FEDERAL ROAD, DANBURY, CT 06810  
(203) 730-9600  
Wed May 30 14:36:12 2007

This Project cannot be priced because not all materials are carried in stock.  
See Store Associate for prices on non-stock items shown in Bill-of-Materials.

RON OLIVERI  
~~12X12~~  
417236  
3D View

SECTION OF 8' wide  
ELEVATED WALKWAY



The Home Depot # 6209  
 114 FEDERAL ROAD, DANBURY, CT 06810  
 (203) 730-9600  
 5/30/2007  
 RON OLIVERI  
~~12X12~~ **8X12** ELEVATED WALKWAY  
 417236

Materials for Deck:

Qty	UOM	SKU	Use	Description
25	EA	302477	Balusters	2X2-8 #1 EE PT
2	EA	255781	Beam	2X10-12 #2 PT
1	EA	631848	Decking	VERANDA 5/4X6-8 COMPOSITE TEXT SLATE
12	EA	633193	Decking	VERANDA 5/4X6-12 COMPOSITE TXTD SLAT
4	EA	168768	H Top Rail	5/4 X6-8FT THOMPSONIZED DECK PT
4	EA	255781	Joist	2X10-12 #2 PT
1	EA	259270	Post	4X6-8 #2 PT
3	EA	256276	Railing Post	4X4-8 #2 PT
3	EA	255781	Rim Joist	2X10-12 #2 PT
4	EA	254258	Vert Top Rail	2X4-8 #1 SYP PT
Standard Materials: NOSKU, Standard Deck Materials				
4	EA	209715	4x4 Post Foot Brkt	PB44Z 4X4 POST BASE Z-MAX
4	EA	524959	Anchor Bolt	8"X1/2 HOT GALV ANCHOR BOLT 1PC
4	EA	538892	Anchor Nut	HEX NUT GALV 1/2
4	EA	538981	Anchor Washer	FLAT CUT WASHER GALV 1/2
1	EA	735003	Deck Screws	GREEN 5LB 3 IN DECKMATE DECK SCRW
1	EA	258132	DiagBrac Joist	4X4-12 #2 PT
1	EA	192708	Joist Framing Nails	16D 3-1/2" HOT GALV COMMON 5 LB
1	EA	192708	DiagBrac Joist Nail	16D 3-1/2" HOT GALV COMMON 5 LB
12	EA	544208	Rail Post-Bolt	CARRIAGE BOLT-GALV. 1/2 X 8
12	EA	538892	Rail Post-Nut	HEX NUT GALV 1/2
12	EA	538981	Rail Post-Washer	FLAT CUT WASHER GALV 1/2

The total cost of in stock materials is \$715.69 plus tax. \*  
 This Price does not include any Special Order Items.  
 Please see Store Associate to adjust the design or to price and order items.  
 This estimate was created on 5/30/2007 and is valid for 3 business days.

Parameters from UBC.cod parameter file.  
 Parameters used for Deck 1: 40 psf live load, 48 inch footing depth.

**WARNING:**  
 THIS IS NOT A FINAL DESIGN PLAN. VARIATIONS IN BUILDING CODES, SPECIFIC ARCHITECTURAL CONSIDERATIONS, OR SITE CONDITIONS MAY REQUIRE CHANGES TO THIS DESIGN. YOU ARE RESPONSIBLE FOR THE FINAL STRUCTURE, CODE VERIFICATION, MATERIAL USAGE, AND STRUCTURAL SAFETY OF THIS DESIGN. BE SURE TO CHECK AND VERIFY THE DESIGN WITH YOUR LOCAL ARCHITECT AND BUILDING INSPECTOR.  
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The Home Depot # 6209  
114 FEDERAL ROAD, DANBURY, CT 06810

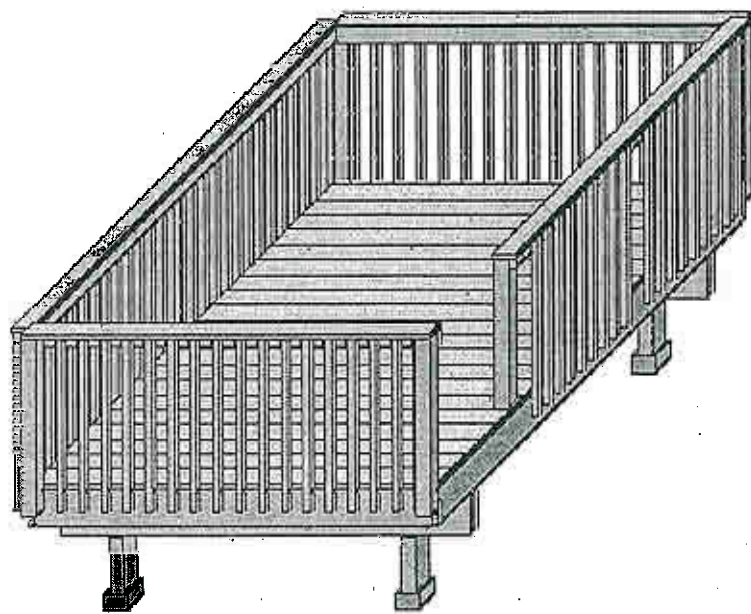
(203) 730-9600

Wed May 30 14:33:26 2007

This Project cannot be priced because not all materials are carried in stock.  
See Store Associate for prices on non-stock items shown in Bill-of-Materials.

RC. OLIVERI  
~~12412~~  
417236  
3D View

8 x 12 OBSERVATION DECK



The Home Depot # 6209  
 114 FEDERAL ROAD, DANBURY, CT 06810  
 (203) 730-9600  
 5/30/2007  
 RON OLIVERI  
~~12X42~~  
 417236

8x12 OBSERVATION deck

Materials for Deck:

Qty	UOM	SKU	Use	Description
39	EA	302477	Balusters	2X2-8 #1 EE PT
4	EA	155465	Beam	2X10-8 #2 PT
25	EA	631848	Decking	VERANDA 5/4X6-8 COMPOSITE TEXT SLATE
6	EA	168768	H Top Rail	5/4 X6-8FT THOMPSONIZED DECK PT
5	EA	255781	Joist	2X10-12 #2 PT
1	EA	259270	Post	4X6-8 #2 PT
5	EA	256276	Railing Post	4X4-8 #2 PT
2	EA	155465	Rim Joist	2X10-8 #2 PT
2	EA	255781	Rim Joist	2X10-12 #2 PT
6	EA	254258	Vert Top Rail	2X4-8 #1 SYP PT
Standard Materials: NOSKU, Standard Deck Materials				
4	EA	209715	4x4 Post Foot Brkt	PB44Z 4X4 POST BASE Z-MAX
4	EA	524959	Anchor Bolt	8"X1/2 HOT GALV ANCHOR BOLT 1PC
4	EA	538892	Anchor Nut	HEX NUT GALV 1/2
4	EA	538981	Anchor Washer	FLAT CUT WASHER GALV 1/2
1	EA	735003	Deck Screws	GREEN 5LB 3 IN DECKMATE DECK SCRW
1	EA	258132	DiagBrac Joist	4X4-12 #2 PT
1	EA	192708	Joist Framing Nails	16D 3-1/2" HOT GALV COMMON 5 LB
1	EA	192708	DiagBrac Joist Nail	16D 3-1/2" HOT GALV COMMON 5 LB
20	EA	544208	Rail Post-Bolt	CARRIAGE BOLT-GALV. 1/2 X 8
20	EA	538892	Rail Post-Nut	HEX NUT GALV 1/2
20	EA	538981	Rail Post-Washer	FLAT CUT WASHER GALV 1/2

The total cost of in stock materials is \$939.09 plus tax. \*

This Price does not include any Special Order Items.  
 Please see Store Associate to adjust the design or to price and order items.  
 This estimate was created on 5/30/2007 and is valid for 3 business days.

Parameters from UBC.cod parameter file.  
 Parameters used for Deck 1: 40 psf live load, 48 inch footing depth.

WARNING:

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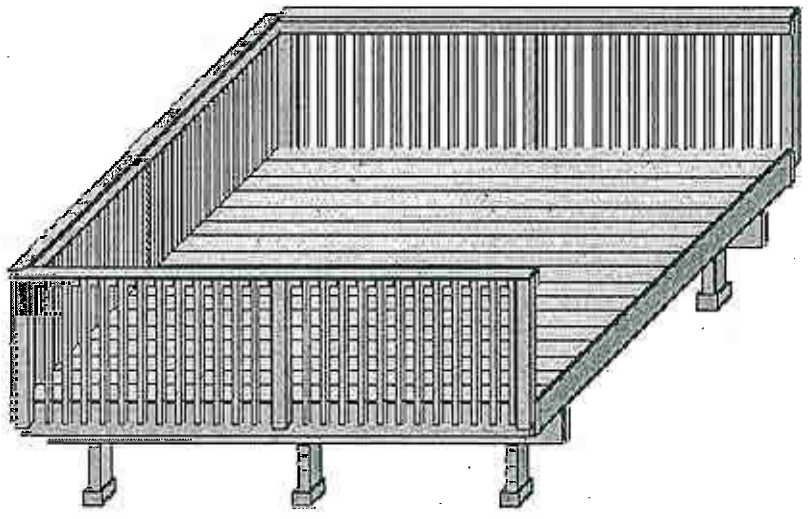


The Home Depot # 6209  
114 FEDERAL ROAD, DANBURY, CT 06810  
(203) 730-9600  
Wed May 30 14:31:01 2007

This Project cannot be priced because not all materials are carried in stock.  
See Store Associate for prices on non-stock items shown in Bill-of-Materials.

RC... OLIVERI  
~~12x12~~  
417236  
3D View

12 x 12 OBSERVATION DECK



The Home Depot # 6209  
 114 FEDERAL ROAD, DANBURY, CT 06810  
 (203) 730-9600  
 5/30/2007  
 RON OLIVERI  
 12X12  
 417236

*12X12 OBSERVATION deck*

Materials for Deck:

Qty	UOM	SKU	Use	Description
38	EA	302477	Balusters	2X2-8 #1 EE PT
4	EA	255781	Beam	2X10-12 #2 PT
25	EA	633193	Decking	VERANDA 5/4X6-12 COMPOSITE TXTD SLAT
6	EA	168768	H Top Rail	5/4 X6-8FT THOMPSONIZED DECK PT
8	EA	255781	Joist	2X10-12 #2 PT
1	EA	260430	Post	4X6-12 #2 PT
5	EA	256276	Railing Post	4X4-8 #2 PT
4	EA	255781	Rim Joist	2X10-12 #2 PT
6	EA	254258	Vert Top Rail	2X4-8 #1 SYP PT
Standard Materials: NOSKU, Standard Deck Materials				
6	EA	209715	4x4 Post Foot Brkt	PB44Z 4X4 POST BASE Z-MAX
6	EA	524959	Anchor Bolt	8"X1/2 HOT GALV ANCHOR BOLT 1PC
6	EA	538892	Anchor Nut	HEX NUT GALV 1/2
6	EA	538981	Anchor Washer	FLAT CUT WASHER GALV 1/2
2	EA	735003	Deck Screws	GREEN 5LB 3 IN DECKMATE DECK SCRW
2	EA	258132	DiagBrac Joist	4X4-12 #2 PT
1	EA	192708	Joist Framing Nails	16D 3-1/2" HOT GALV COMMON 5 LB
1	EA	192708	DiagBrac Joist Nail	16D 3-1/2" HOT GALV COMMON 5 LB
18	EA	544208	Rail Post-Bolt	CARRIAGE BOLT-GALV. 1/2 X 8
18	EA	538892	Rail Post-Nut	HEX NUT GALV 1/2
18	EA	538981	Rail Post-Washer	FLAT CUT WASHER GALV 1/2

The total cost of in stock materials is \$1265.39 plus tax. \*

This Price does not include any Special Order Items.

Please see Store Associate to adjust the design or to price and order items.

This estimate was created on 5/30/2007 and is valid for 3 business days.

Parameters from UBC.cod parameter file.  
 Parameters used for Deck 1: 40 psf live load, 48 inch footing depth.

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## **Trail Construction and Maintenance**

The Connecticut Forest and Park Association is an organization devoted to hiking through the construction and maintenance of trails throughout Connecticut. The following pages are just the cover sheets of the booklets sent to us by this organization. Each topic offers detailed information on the various aspects of trail construction from the planning phase through construction and maintenance. We offer this as an indication of the determination of the project team to fully understand the various requirements of each phase of our proposal.

Our project team will contact the Connecticut Forest and Park Association once our proposal is approved. As with other projects they have been instrumental in guiding, we expect to receive the same high quality of advice and direction.

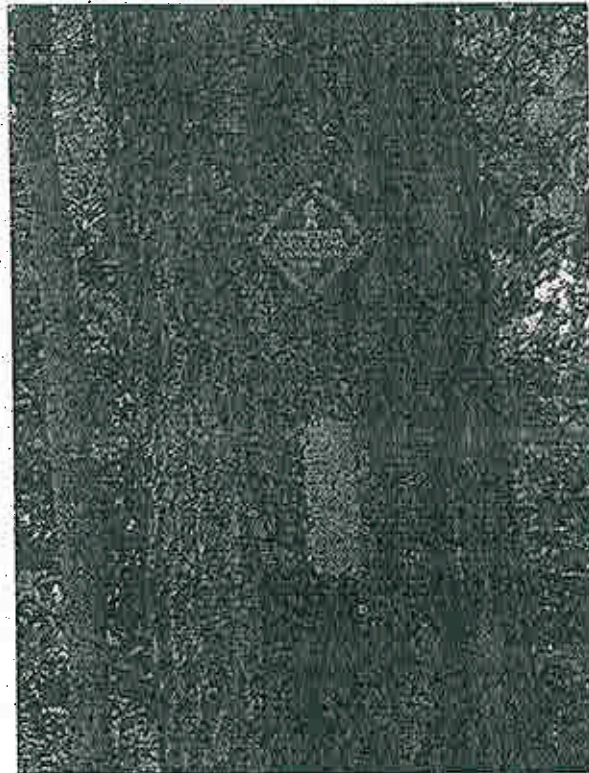


***Work Party Planning,  
Preparation and  
Management***

***Written by: Rob Butterworth***

***Version 1- Jan 2, 2007***

***Trail\_Workparty\_Management\_Ver1.doc***



***Hand Tool Safety  
On  
The Trails***

***Written by: Rob Butterworth  
Version 3-Dec 23, 2005  
Trail\_Tool\_Safety\_Ver3.doc***





***Trail Construction  
And  
Maintenance***

**Written by: George Arthur**  
**Edited by: R. Butterworth**  
**Version 5-Dec 23, 2005**  
Trail\_Construction\_Maintenance\_Ver5.doc



***Bridges and Other Structures  
For Use On  
Foot Trails***

***Written by: Birge Dayton and George Arthur  
Edited by: Rob Butterworth  
Version 5-Dec 2, 2004  
Trail\_Bridges\_Structures\_Ver5.doc***





**Trail Blazing  
The  
CFPA Way**

**Written by: Rob Butterworth and Dick Blake**

**Version 3-Dec 23, 2005**

Trail\_Blazing\_CFPA\_Ver3.doc

**STATE OF CONNECTICUT  
DEPARTMENT OF PUBLIC HEALTH**

**2003 ORGANICS REPORT**



**Keeping Connecticut Healthy**

[www.dph.state.ct.us](http://www.dph.state.ct.us)

Governor John G. Rowland

Commissioner J. Robert Galvin, M.D., M.P.H.

**REPORT PER SECTION 25-39a OF THE CONNECTICUT GENERAL STATUTES  
MONITORING, HEALTH RISKS, AND TREATMENT COSTS  
FOR ORGANIC CHEMICALS IN PUBLIC DRINKING WATER  
FOR THE YEAR 2003**

**February, 2003**

Positive Organisms for Calendar Year 2003

TOWN	SYSTEM TYPE	SYSTEM NAME	PWSID	FACILITY NAME	FACILITY TYPE	COLLECTION DATE	CHEMICAL	MEASURE	UNIT OF MEASURE
ASHFORD	NON TRAN NON COMM	ASHFORD ELEMENTARY SCHOOL	CT0930152	ENTRY POINT	SS	06/19/2003	TETRACHLOROETHYLENE	0.0016	MGL
MIDDLETOWN	NON TRAN NON COMM	PRATT & WHITNEY	CT0930032	ENTRY POINT	SS	03/05/2003	CHLOROMETHANE	0.01013	MGL
MIDDLETOWN	NON TRAN NON COMM	PRATT & WHITNEY	CT0930032	ENTRY POINT	SS	03/05/2003	CARBON TETRACHLORIDE	0.00285	MGL
MIDDLETOWN	NON TRAN NON COMM	PRATT & WHITNEY	CT0930032	ENTRY POINT	SS	06/07/2003	METHYL TERT-BUTYL ETHER (MTBE)	0.0008	MGL
MIDDLETOWN	NON TRAN NON COMM	PRATT & WHITNEY	CT0930032	ENTRY POINT	SS	06/07/2003	METHYL TERT-BUTYL ETHER (MTBE)	0.0008	MGL
MIDDLETOWN	NON TRAN NON COMM	PRATT & WHITNEY	CT0930032	WELL 7	WL	11/05/2003	1,1,1-TRICHLOROETHANE	0.00283	MGL
MIDDLETOWN	NON TRAN NON COMM	PRATT & WHITNEY	CT0930032	WELL 7	WL	11/05/2003	TRICHLOROETHYLENE	0.01488	MGL
MONROE	NON TRAN NON COMM	CORNELL-CARR	CT0950352	ENTRY POINT	SS	06/02/2003	TOLUENE	0.0024	MGL
MONROE	NON TRAN NON COMM	CORNELL-CARR	CT0950352	ENTRY POINT	SS	12/03/2003	TOLUENE	0.00648	MGL
MONTVILLE	COMMUNITY	FREEDOM VILLAGE ELDERLY HOUSING	CT0969073	ENTRY POINT	SS	05/29/2003	METHYL TERT-BUTYL ETHER (MTBE)	0.0023	MGL
MONTVILLE	COMMUNITY	VILLAGE APARTMENTS	CT0967031	ENTRY POINT	SS	03/25/2003	METHYL TERT-BUTYL ETHER (MTBE)	0.0007	MGL
MORRIS	NON TRAN NON COMM	WHITE FLOWER FARM	CT0970344	ENTRY POINT	SS	06/15/2003	1,2-DICHLOROPROPANE	0.00433	MGL
NEW FAIRFIELD	COMMUNITY	AQUARIUM WATER CO OF CT-BALL POND SYS	CT0910011	ENTRY POINT-BIGGS	SS	01/19/2003	TRICHLOROETHYLENE	0.0098	MGL
NEW FAIRFIELD	NON TRAN NON COMM	CHRISTIAN DAY NURSERY SCHOOL	CT0915213	ENTRY POINT	SS	06/19/2003	NAPHTHALENE	0.00016	MGL
NEW FAIRFIELD	NON TRAN NON COMM	CONSOLIDATED SCHOOL	CT0915053	ENTRY POINT	SS	05/14/2003	METHYL TERT-BUTYL ETHER (MTBE)	0.00513	MGL
NEW FAIRFIELD	NON TRAN NON COMM	CONSOLIDATED SCHOOL	CT0915053	ENTRY POINT	SS	09/04/2003	1,1,1-TRICHLOROETHANE	0.00143	MGL
NEW FAIRFIELD	NON TRAN NON COMM	DRUCK, INC. (4 DUNHAM DR)	CT0910522	BETWEEN GAC FILTERS	SS	03/04/2003	1,1-TRICHLOROETHANE	0.00879	MGL
NEW FAIRFIELD	NON TRAN NON COMM	DRUCK, INC. (4 DUNHAM DR)	CT0910522	BETWEEN GAC FILTERS	SS	09/11/2003	1,1-DICHLOROETHANE	0.00188	MGL
NEW FAIRFIELD	NON TRAN NON COMM	DRUCK, INC. (4 DUNHAM DR)	CT0910522	ENTRY POINT	SS	06/11/2003	1,1-TRICHLOROETHANE	0.0117	MGL
NEW FAIRFIELD	NON TRAN NON COMM	DRUCK, INC. (4 DUNHAM DR)	CT0910522	ENTRY POINT	SS	06/11/2003	1,1-DICHLOROETHANE	0.00908	MGL
NEW FAIRFIELD	NON TRAN NON COMM	DRUCK, INC. (4 DUNHAM DR)	CT0910522	WELL	WL	09/11/2003	1,1-DICHLOROETHANE	0.00280	MGL
NEW FAIRFIELD	NON TRAN NON COMM	DRUCK, INC. (4 DUNHAM DR)	CT0910522	WELL	WL	09/11/2003	1,1-TRICHLOROETHANE	0.00280	MGL
NEW FAIRFIELD	NON TRAN NON COMM	FRETSTONE COMMONS	CT0910554	WELL	WL	02/22/2003	TETRACHLOROETHYLENE	0.00156	MGL
NEW FAIRFIELD	NON TRAN NON COMM	HERITAGE PLAZA	CT0915103	BETWEEN GAC FILTERS	SS	03/04/2003	CIS-1,2-DICHLOROETHYLENE	0.0009	MGL
NEW FAIRFIELD	NON TRAN NON COMM	HERITAGE PLAZA	CT0915103	BETWEEN GAC FILTERS	SS	07/24/2003	TETRACHLOROETHYLENE	0.0035	MGL
NEW FAIRFIELD	NON TRAN NON COMM	HERITAGE PLAZA	CT0915103	BETWEEN GAC FILTERS	SS	07/24/2003	TETRACHLOROETHYLENE	0.0007	MGL
NEW FAIRFIELD	NON TRAN NON COMM	HERITAGE PLAZA	CT0915103	BETWEEN GAC FILTERS	SS	10/22/2003	TETRACHLOROETHYLENE	0.0011	MGL
NEW FAIRFIELD	NON TRAN NON COMM	HERITAGE PLAZA	CT0915103	ENTRY POINT	SS	07/24/2003	TETRACHLOROETHYLENE	0.0013	MGL
NEW FAIRFIELD	NON TRAN NON COMM	HERITAGE PLAZA	CT0915103	ENTRY POINT	SS	04/22/2003	TETRACHLOROETHYLENE	0.0019	MGL
NEW FAIRFIELD	NON TRAN NON COMM	HERITAGE PLAZA	CT0915103	WELL 1	WL	04/22/2003	TETRACHLOROETHYLENE	0.0008	MGL
NEW FAIRFIELD	NON TRAN NON COMM	HERITAGE PLAZA	CT0915103	WELL 2	WL	04/22/2003	TETRACHLOROETHYLENE	0.0018	MGL
NEW FAIRFIELD	NON TRAN NON COMM	HERITAGE PLAZA	CT0915103	WELL 3	WL	06/23/2003	TOLUENE	0.0024	MGL
NEW FAIRFIELD	NON TRAN NON COMM	HERITAGE PLAZA	CT0910532	ENTRY POINT	SS	06/12/2003	TETRACHLOROETHYLENE	0.00116	MGL
NEW FAIRFIELD	NON TRAN NON COMM	HERITAGE PLAZA	CT0910532	ENTRY POINT	SS	03/04/2003	METHYL TERT-BUTYL ETHER (MTBE)	0.0132	MGL
NEW FAIRFIELD	NON TRAN NON COMM	HERITAGE PLAZA	CT0910532	ENTRY POINT	SS	03/04/2003	METHYL TERT-BUTYL ETHER (MTBE)	0.0008	MGL
NEW FAIRFIELD	NON TRAN NON COMM	HERITAGE PLAZA	CT0910532	BETWEEN GAC FILTERS	SS	03/04/2003	CIS-1,2-DICHLOROETHYLENE	0.0008	MGL
NEW FAIRFIELD	NON TRAN NON COMM	HERITAGE PLAZA	CT0910532	BETWEEN GAC FILTERS	SS	03/04/2003	TETRACHLOROETHYLENE	0.0008	MGL
NEW FAIRFIELD	NON TRAN NON COMM	HERITAGE PLAZA	CT0910532	BETWEEN GAC FILTERS	SS	10/02/2003	TETRACHLOROETHYLENE	0.0008	MGL
NEW FAIRFIELD	NON TRAN NON COMM	HERITAGE PLAZA	CT0910532	BETWEEN GAC FILTERS	SS	10/02/2003	TETRACHLOROETHYLENE	0.0007	MGL
NEW FAIRFIELD	NON TRAN NON COMM	HERITAGE PLAZA	CT0910532	ENTRY POINT	SS	03/31/2003	METHYL TERT-BUTYL ETHER (MTBE)	0.0122	MGL
NEW FAIRFIELD	NON TRAN NON COMM	HERITAGE PLAZA	CT0910532	ENTRY POINT	SS	06/17/2003	METHYL TERT-BUTYL ETHER (MTBE)	0.0089	MGL
NEW FAIRFIELD	NON TRAN NON COMM	HERITAGE PLAZA	CT0910532	ENTRY POINT	SS	06/17/2003	TETRACHLOROETHYLENE	0.0089	MGL
NEW FAIRFIELD	NON TRAN NON COMM	HERITAGE PLAZA	CT0910532	ENTRY POINT	SS	07/24/2003	METHYL TERT-BUTYL ETHER (MTBE)	0.0108	MGL
NEW FAIRFIELD	NON TRAN NON COMM	HERITAGE PLAZA	CT0910532	ENTRY POINT	SS	07/24/2003	TETRACHLOROETHYLENE	0.0008	MGL
NEW FAIRFIELD	NON TRAN NON COMM	HERITAGE PLAZA	CT0910532	WELL #1	WL	10/02/2003	METHYL TERT-BUTYL ETHER (MTBE)	0.0038	MGL
NEW FAIRFIELD	NON TRAN NON COMM	HERITAGE PLAZA	CT0910532	WELL #1	WL	04/22/2003	METHYL TERT-BUTYL ETHER (MTBE)	0.0162	MGL
NEW FAIRFIELD	NON TRAN NON COMM	HERITAGE PLAZA	CT0910532	WELL #1	WL	04/22/2003	TRICHLOROETHYLENE	0.0112	MGL
NEW FAIRFIELD	NON TRAN NON COMM	HERITAGE PLAZA	CT0910532	ENTRY POINT	SS	05/22/2003	TETRACHLOROETHYLENE	0.0133	MGL
NEW FAIRFIELD	NON TRAN NON COMM	HERITAGE PLAZA	CT0910532	ENTRY POINT	SS	05/22/2003	TETRACHLOROETHYLENE	0.0007	MGL
NEW MILFORD	COMMUNITY	UNITED WATER CT, INC.-NEW MILFORD SYSTEM	CT0990011	WELLS #2 AND #3 TP ENTRY POINT	SS	07/17/2003	METHYL TERT-BUTYL ETHER (MTBE)	0.0027	MGL
NEWTOWN	NON TRANSPARENT	PROPERTY AT 115 CHURCH HILL ROAD	CT0970424	DISTRIBUTION SYSTEM	D8	10/03/2003	CIS-1,2-DICHLOROETHYLENE	0.00543	MGL
NEWTOWN	NON TRANSPARENT	PROPERTY AT 115 CHURCH HILL ROAD	CT0970424	DISTRIBUTION SYSTEM	D8	10/03/2003	TRICHLOROETHYLENE	0.00189	MGL
NEWTOWN	NON TRANSPARENT	PROPERTY AT 115 CHURCH HILL ROAD	CT0970424	DISTRIBUTION SYSTEM	D8	04/09/2003	METHYL TERT-BUTYL ETHER (MTBE)	0.0083	MGL
NEWTOWN	NON TRANSPARENT	THE MONA LISA	CT0970304	ENTRY POINT	SS	04/09/2003	METHYL TERT-BUTYL ETHER (MTBE)	0.0034	MGL
NORTH BRANFORD	NON TRAN NON COMM	ACES COLLABORATIVE MAGNET SCHOOL	CT0980723	ENTRY POINT	SS	02/28/2003	TOLUENE	0.024	MGL
NORTH BRANFORD	NON TRAN NON COMM	ACES COLLABORATIVE MAGNET SCHOOL	CT0980723	ENTRY POINT	SS	05/15/2003	TOLUENE	0.0132	MGL
NORTH BRANFORD	NON TRAN NON COMM	ACES COLLABORATIVE MAGNET SCHOOL	CT0980723	ENTRY POINT	SS	08/14/2003	TOLUENE	0.0155	MGL
NORTH BRANFORD	NON TRAN NON COMM	ACES COLLABORATIVE MAGNET SCHOOL	CT0980723	ENTRY POINT	SS	10/30/2003	TOLUENE	0.0050	MGL
NORTH STONINGTON	NON TRAN NON COMM	TINACO PLAZA, LLC	CT1020062	BETWEEN GAC FILTERS	SS	04/01/2003	METHYL TERT-BUTYL ETHER (MTBE)	0.018	MGL
NORTH STONINGTON	NON TRAN NON COMM	TINACO PLAZA, LLC	CT1020062	BETWEEN GAC FILTERS	SS	05/12/2003	METHYL TERT-BUTYL ETHER (MTBE)	0.038	MGL
NORTH STONINGTON	NON TRAN NON COMM	TINACO PLAZA, LLC	CT1020062	BETWEEN GAC FILTERS	SS	07/14/2003	METHYL TERT-BUTYL ETHER (MTBE)	0.028	MGL
NORTH STONINGTON	NON TRAN NON COMM	TINACO PLAZA, LLC	CT1020062	ENTRY POINT	SS	11/05/2003	METHYL TERT-BUTYL ETHER (MTBE)	0.021	MGL
NORTH STONINGTON	NON TRAN NON COMM	TINACO PLAZA, LLC	CT1020062	WELL 1	WL	01/19/2003	METHYL TERT-BUTYL ETHER (MTBE)	0.029	MGL
NORTH STONINGTON	NON TRAN NON COMM	TINACO PLAZA, LLC	CT1020062	WELL 1	WL	03/24/2003	METHYL TERT-BUTYL ETHER (MTBE)	0.035	MGL
NORWALK	COMMUNITY	NORWALK FIRST TAXING DISTRICT	CT1030011	RAW WELLFIELD ENTRY POINT	SS	05/07/2003	TRICHLOROETHYLENE	0.0007	MGL
OLD LYME	NON TRAN NON COMM	EASTPORT - WEST 2	CT1059193	ENTRY POINT	SS	05/01/2003	METHYL TERT-BUTYL ETHER (MTBE)	0.011	MGL
OLD LYME	NON TRAN NON COMM	EASTPORT - WEST 2	CT1059193	ENTRY POINT	SS	07/09/2003	METHYL TERT-BUTYL ETHER (MTBE)	0.004	MGL
OLD LYME	NON TRAN NON COMM	EASTPORT - WEST 2	CT1059193	ENTRY POINT	SS	07/09/2003	XYLENE PARA	0.003	MGL
OLD LYME	NON TRAN NON COMM	EASTPORT - WEST 2	CT1059193	ENTRY POINT	SS	07/09/2003	TOLUENE	0.003	MGL
OLD LYME	NON TRAN NON COMM	EASTPORT - WEST 2	CT1059193	ENTRY POINT	SS	07/09/2003	ETHYLBENZENE	0.0056	MGL
OLD LYME	NON TRAN NON COMM	EASTPORT - WEST 2	CT1059193	ENTRY POINT	SS	07/09/2003	XYLENE ORTHO	0.0056	MGL
OLD LYME	NON TRAN NON COMM	EASTPORT - WEST 2	CT1059193	WELL #2 - FIRE SYSTEM SUPPLY	WL	11/19/2003	METHYL TERT-BUTYL ETHER (MTBE)	0.005	MGL

G.E.

G.E.

Box 1567  
New Milford, CT 06776  
860/355 8773 TEL  
860/355 2258 FAX  
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**HYDRO**  
**TECHNOLOGIES INC.**  
Report of Analysis

CT DPH LAB #PH-0627  
EPA LAB #CT00051  
Water, Wastewater  
Soil and Air Testing  
Sampling and Consulting

**Name:** Town of New Fairfield  
Attn.: T. Simpkins  
4 Brush Hill Road  
New Fairfield, CT 06812

**Sample ID#:** 109762  
**Sample Type:** Test  
**Sample Source:** Ball Pond Brook - Sample 2  
**Sampler:** T. Simpkins

**Date:** 5/18/2007  
**Receipt Date:** 5/18/2007  
**Report Date:** 5/21/2007 11:50:19 AM  
**Site:** Special

WATER SAMPLE  
OF  
BALL POND BROOK  
NEAR  
G.E. DRUCK  
BUILDING IN  
NEW FAIRFIELD

Parameter	Sample Result	Units
<b>Volatile Organic Compounds</b>		
01) Benzene	ND	ug/l
02) Bromobenzene	ND	ug/l
03) Bromochloromethane	ND	ug/l
04) Bromodichloromethane (THM)	ND	ug/l
05) Bromoform (THM)	ND	ug/l
06) Bromomethane	ND	ug/l
07) n-Butylbenzene	ND	ug/l
08) sec-Butylbenzene	ND	ug/l
09) tert-Butylbenzene	ND	ug/l
10) Carbon tetrachloride	ND	ug/l
11) Chlorobenzene	ND	ug/l
12) Chlorodibromomethane (THM)	ND	ug/l
13) Chloroethane	ND	ug/l
14) Chloroform (THM)	ND	ug/l
15) Chloromethane	ND	ug/l
16) o-Chlorotoluene	ND	ug/l
17) p-Chlorotoluene	ND	ug/l
17b) 1,2-Dibromoethane	ND	ug/l
18) Dibromomethane	ND	ug/l
19) m-Dichlorobenzene	ND	ug/l
20) o-Dichlorobenzene	ND	ug/l
21) p-Dichlorobenzene	ND	ug/l
22) 1,1-Dichloroethane	ND	ug/l
23) 1,2-Dichloroethane	ND	ug/l
24) 1,1-Dichloroethylene	ND	ug/l
25) cis-1,2-Dichloroethylene *	1.4 *	ug/l
26) trans-1,2-Dichloroethylene	ND	ug/l
27) Dichlorodifluoromethane	ND	ug/l
28) Dichloromethane	ND	ug/l

ND = Not Detected  
\* = Above Specified Limit

Results Certified by Hydro Technologies, Inc.:

**Note:** The test results are only valid for date sample was taken. We do not accept any liability for use of these results.

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WATER  
 Sample  
 NEAR  
 G.E. DRUCK  
 BUILDING IN  
 NEW FAIRFIELD

Parameter	Sample Result	Units
<b>Volatile Organic Compounds</b>		
29) 1,2-Dichloropropane	ND	ug/l
30) 1,3-Dichloropropane	ND	ug/l
31) 2,2-Dichloropropane	ND	ug/l
32) 1,1-Dichloropropene	ND	ug/l
33) 1,3-Dichloropropene	ND	ug/l
33a) cis 1,3-Dichloropropene	ND	ug/l
33b) trans 1,3 Dichloropropene	ND	ug/l
34) Ethylbenzene	ND	ug/l
35) Fluorotrichloromethane	ND	ug/l
36) Hexachlorobutadiene	ND	ug/l
37) Isopropylbenzene	ND	ug/l
38) p-Isopropyltoluene	ND	ug/l
39) MTBE	ND	ug/l
40) Naphthalene	ND	ug/l
41) n-Propylbenzene	ND	ug/l
42) Styrene	ND	ug/l
43) 1,1,1,2-Tetrachloroethane	ND	ug/l
44) 1,1,2,2-Tetrachloroethane	ND	ug/l
45) Tetrachloroethylene *	2.3 *	ug/l
46) Toluene	ND	ug/l
47) 1,2,3-Trichlorobenzene	ND	ug/l
48) 1,2,4-Trichlorobenzene	ND	ug/l
49) 1,1,1-Trichloroethane	ND	ug/l
50) 1,1,2-Trichloroethane	ND	ug/l
51) Trichloroethylene	ND	ug/l
52) 1,2,3-Trichloropropane	ND	ug/l
53) 1,2,3-Trimethylbenzene	ND	ug/l
54) 1,2,4-Trimethylbenzene	ND	ug/l
55) 1,3,5-Trimethylbenzene	ND	ug/l

ND = Not Detected  
 \* = Above Specified Limit

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