

# 2008 Watershed Assistance for High Quality Waters and Restoration for Impaired Waters Grants.

Project Proposals are due by 4:00 p.m. on January 25, 2008.

Submit **one signed copy** of the 2008 Watershed Assistance for High Quality Waters or Restoration for Impaired Waters Grants Full Proposal Form (attached) and all attachments, via mail or hand delivery, and an electronic copy of the Full Proposal Form and all attachments (other than support letters) in Microsoft Word or PDF file formats to:

NH Department of Environmental Services  
Attention: Jeff Marcoux  
Watershed Assistance Section  
PO Box 95  
Concord, NH 03302-0095

E-mail electronic copies to: [jeffrey.marcoux@des.nh.gov](mailto:jeffrey.marcoux@des.nh.gov)

If you have difficulty e-mailing attachments, such as maps and photos, please contact Jeff Marcoux to make alternate arrangements.

For overnight shipping or hand deliveries, our address is 29 Hazen Drive, Concord NH 03301-6509.

## Your Full Proposal package should include:

- The completed project proposal form
- A site map
- Optional:
  - Letters of support
  - Photos
  - Water quality data

**FULL PROPOSAL DEADLINE : 4:00PM JANUARY 25, 2008**



## 1. Project Title

Willand Pond Drainage Establishment and Public Outreach

## 2. Contact Information

Primary contact person:	Christopher Parker, AICP	
Organization:	City of Dover	
Street address:	288 Central Avenue	
City, State, ZIP:	Dover, NH. 03820.	
Day phone: (603)516-6008	Fax: (603)516-6007	Email: c.parker@ci.dover.nh.us

Signature of Applicant: \_\_\_\_\_

Date of signature: \_\_\_\_\_

## 3. Project Summary

*In 200 words or less, describe the proposed project including: the general location (municipalities and watershed); water quality threat or impairment(s); causes or sources of water quality threats or impairment(s); proposed management activities, e.g., education, technical assistance, planning/design, construction; desired project outcome; and how success will be verified.*

Willand Pond is a 86 acre natural and spring fed Class A water body, situated in the Middle Salmon Falls River, which is located in the Piscataqua River Watershed. The subwatershed of interest, although not delineated at this time, is approximately 290 acres.

Over the previous 100 years the watershed has been steadily developed. Route 108 borders the pond to the south and west in Dover and Route 9 is situated along the east of the pond in Somersworth. A multitude of factors contribute to a sustained elevated water level that has resulted in flooding, property damage, inaccessibility to trails and other detrimental human and environmental impacts.

There has been encroachment into the disorganized drainage outlet to the north east over time. In addition, installation of a sanitary sewer line and water mains in Somersworth has intersected the path of the drainage flow. Surface water flows out of the pond, through a wetland to the north and appears to be redirected and/or impounded where the sanitary line crosses the hydric soils. Sustained flooding at Willand Pond began with the so called "Mother's Day Storm" in May 2006, and continued with the April 2007 "Patriots Day" flooding as well.

On July 13, 2007, DES documented a cyanobacteria bloom in Willand Pond. This occurrence has decreased transparency and affected overall water quality and caused the pond to be

classified as eutrophic. Willand Pond is impaired under the DES Surface Water Quality Standard, Env-Ws 1703.01 Water Use Classifications, (c) and (d).

Success will be verified by the reduction of water levels, the creation of a volunteer monitoring group, and the pond being classified as either oligotrophic or mesotrophic after successful implementation of the chosen solution.

#### 4. Total Project Cost

Identify the amount of Grant funds requested (60%), non-federal match (40%), and total cost of project (100%). Use the following methods to calculate the project cost amounts:

$$\begin{aligned} & \text{[Grant funds requested]} \times 0.667 = \text{Required non-federal match} \\ & \text{or} \\ & \text{[Grant funds requested]} \times 1.667 = \text{Total cost} \\ & \text{[Total cost]} - \text{[Grant funds requested]} = \text{Required non-federal match} \end{aligned}$$

		Project Costs
Total project cost	100%	136,222
Grant funds requested	60%	68,280
Required non-federal match amount	40%	67,942

#### 5. Project Management

Who is responsible for managing this project? If applicable, who is the co-manager?

Project manager name: Christopher Parker, AICP  
 Title: Director of Planning and Community Development  
 Affiliation: City of Dover  
 Street address: 288 Central Avenue  
 City, State, ZIP: Dover, NH. 03820  
 Day phone: (603) 516-6008 Fax: (603) 516-6007 Email: c.parker@ci.dover.nh.us

Project co-manager name: Craig Wheeler  
 Title: Director of Development Services  
 Affiliation: City of Somersworth  
 Street Address: One Government Way  
 City, State, ZIP: Somersworth, NH. 03878  
 Day phone: (603) 692-9516 Fax: (603) 692-9575 Email: cwheeler@somersworth.com

## 6. Project Location

A. Town(s): **Cities of Dover and Somersworth**

Is project statewide? **Yes** No X

Does project involve other states? **Yes**  No X

B. What type of water body does it affect? **River**  **Stream** X  **Lake/Pond** X   
**Estuary**  **Other** X  **Wetlands**

Waterbody name: **Willand Pond** (NHLAK600030405-03)

12-digit hydrologic unit code (HUC) [interactive map online at  
[www.des.nh.gov/wmb/swqa/AU/select\\_basin.htm](http://www.des.nh.gov/wmb/swqa/AU/select_basin.htm)]

C. Is this water resource listed as impaired or threatened by causes other than mercury on the 2006 305(b)/303(d) Surface Water Quality Assessment? (list available online at [www.des.state.nh.us/wmb/was/documents/NP-Sources.pdf](http://www.des.state.nh.us/wmb/was/documents/NP-Sources.pdf))  
**Yes** X  **No**

**If yes**, what is the cause(s) of impairment on which the listing is based? *"Willand Pond is impaired under the DES Surface Water Quality Standard, Env-Ws 1703.01 Water Use Classifications, (c) All surface waters shall provide, whenever attainable, for the protection and propagation of fish, shellfish and wildlife, and for recreation in and on the surface waters and (d) Unless the flows are caused by naturally occurring conditions, surface water quantity shall be maintained at levels adequate to protect existing and designated uses. The Designated Uses not being met are Aquatic Life Use (refer to Indicator 9 Flow in the DES Consolidated Listing and Assessment Methodology [CALM]) and Primary Contact Recreation (refer to CALM PCR Indicator 4 and see notes for cyan bacteria)."*

**If no**, describe and attach documentation of the impairment.

D. **Area Affected.** *If applicable, list the size (in acres) of the project or area that would be included in the proposed treatment or management.*

The area affected encompasses Willand Pond and adjacent upland and wetland areas that comprise approximately 170 acres.

E. Attach a project location map to your proposal (required). **Yes** X

## 7. Problem/Need

*Provide a clear statement of the types of nonpoint sources and water quality problems or threats to be addressed by the project.*

The entire project will be designed to specifically address the elevated water levels with the goal of maintaining and monitoring an acceptable water level in the pond. Stormwater runoff into the pond will be controlled through adopting regulations requiring no additional nutrient loading and no additional runoff. The project will address the two criteria that has led to the listing of the pond on the 2006 305(b)/303(d) Surface Water Quality Assessment. This phase of the project involves data collection, assessment, survey and mapping, and an examination of alternative solutions that is considered the necessary first step towards realizing water quality goals.

## **8. Outcome Statement**

*Provide a concise statement of your desired outcome, or end-state that this project would ideally achieve. Your vision of what total success would "look like". I.e., Turbidity values in the lake remain below 10 NTU during a 1" rainfall event, and Phosphorus concentrations remain below 15 micro-grams per liter.*

### **The desired outcome for the entire project will be:**

- Trophic data from the pond supports a classification of oligotrophic or mesotrophic based on the history and age of the pond;
- The pond is not subject to future cyanobacteria blooms unless it is clearly a natural occurrence not associated with anthropogenic activities;
- The pond supports a high quality aquatic habitat and is a recreational destination for boaters and fishermen;
- The adjacent wetlands and uplands areas around the pond are well vegetated and established and provide natural protection from nonpoint source pollution into the pond;
- A drainage pattern from Willand Pond is established and functioning to eliminate elevated water levels as experienced in the past years;

### **The desired outcome for this phase of the project will be:**

- Data collection, assessment, survey and mapping has been completed and the cities have a solid, science-based understanding of the hydrology in and around Willand Pond;
- A set of viable alternatives have been examined and a preferred alternative has been chosen;
- A wide base of support is created within the local communities and a commitment is made to maintain water quality;
- The cities of Dover and Somersworth have adopted land use regulations aimed at addressing water quality in and around Willand Pond;

- A successful outreach and education program is implemented that includes the creation of a volunteer group; and,
- A monitoring program is successfully implemented and achieves the desired results

## **9. Project Period**

*Please describe your project time frame here. (The general time frame for projects funded in 2008 is June 1, 2008 through December 31, 2010 although the duration can be shorter.)*

We expect to start the project immediately once the grant agreement is executed. A consultant will be chosen by June 1, 2008. The data collection and assessment will occur during the summer of 2008 and will be completed by October 2008. An alternative analysis report shall be generated by December 2008. It is expected that the project will continue toward the design phase in the Spring of 2009.

## **10. Stakeholder Coordination, Roles, and Responsibilities**

*Describe participation and commitments expected from other agencies, organizations and municipalities. Attach letters affirming support (recommended). Provide a letter affirming support and approval from any BMP construction location property owners.*

The Watershed Management Bureau of the Department of Environmental Services (DES) has been involved in this proposal for several months and it is anticipated that this involvement will continue in an advisory capacity. The Wetlands Bureau has also been contacted and staff from Dover and Somersworth met with Dori Wiggin and others to discuss the possibility of obtaining a wetlands permit during implementation of a solution. This was a productive meeting and this proposal contains certain tasks that will be necessary before a wetlands permit could be secured.

The land use boards of both communities will play an active role in the process as well. Several members of the Somersworth Conservation Commission have volunteered their time to assist in water quality monitoring. A letter from the Somersworth Conservation Commission is included with this proposal.

The adjacent wetland and upland areas are owned by Robert Stackpole, the City of Dover, the City of Somersworth and Home Depot. A letter from Mr. Stackpole expressing a willingness to work with the cities on addressing the issues surrounding Willand Pond is enclosed with this proposal.

An ad hoc committee was formed by the City Council of Dover and this committee meets regularly to discuss the issues surrounding Willand Pond. This committee is aware of the grant and has met with DES staff regarding the methodology of water quality testing.

The Cities have contacted DES and will be removing dead and unsafe trees from the inundated shoreline around the pond. This will be performed during frozen conditions this winter in cooperation with landowners.

## **11. Public Participation**

*Describe how information and education will be used to enhance public understanding of the project and encourage public participation in selecting, designing, and implementing nonpoint source pollution management measures (i.e. "Train citizens to monitor water quality through volunteer river monitoring program", or "Involve lakeside residents in planting trees and shrubs in the protected shoreland area", etc).*

### **2008 Targeted Watershed Restoration Grant Application – Section VI.e) Outreach and Education**

#### **Goals and Intent**

The goal of the education and outreach program is to promote a sense of stewardship within the watershed, particularly focused on residential and business property owners, and to enhance understanding of the principles behind environmental conditions that have had negatively impacted Willand Pond and its watershed. A component of the program will be to establish a "Friends of Willand Pond" group that will serve as the primary contact to local residents and business owners. Education and outreach efforts will also be directed to local elected officials and land use boards.

The intent of the education and outreach program is to fill a critical gap between local land regulation and land management by individual property owners. Recognizing that regulations are only partially effective in shaping landowners actions or in some cases inaction that can have such critical cumulative impacts on the landscape and water quality. The program will build an informed stewardship of landowners to increase voluntary compliance and build public support for improved enforcement and adoption of improved regulations.

#### **Workshops**

A series of workshops will be developed to educate landowners in the watershed and throughout the community. Workshops will focus on responsible use and stewardship and technical information about the variety of causes for impairment of water quality, and methods to improve and protect water quality. Information packets will be developed for each workshop. Topics to be covered by the workshops include: stormwater management, landscaping and yard maintenance practices, management of pet waste and yard waste, impervious surfaces, maintaining and restoring buffers, watershed stewardship awareness.

#### **Education and Outreach Projects**

The Friends of Willand Pond group will assist in development of the proposed projects and serve as the primary agent to implement them through neighborhood work teams with dedicated resources and professional assistance and guidance.

Stormwater Management Assessments – develop a simple assessment method to evaluate stormwater issues and best management practices to manage and disconnect runoff on residential lots and identify retrofitting opportunities for developed business/commercial properties.

“Calculate Your Impervious Surface Footprint” – develop a simple methodology to evaluate impervious surface coverage on residential lots and business/commercial properties, and recommend methods to mitigate runoff and reduce over impervious surface coverage.

“Techniques To Manage a Better Buffer” – develop a fact sheet about methods to improve and enhance buffers; develop and evaluation form to identify problems and develop implementation plans for better management practices; different management emphasis will be developed for residential and business/commercial properties.

How to Protect Water Quality – develop fact sheets about how to manage runoff, landscaping and yard waste, fertilizer and pesticide use, and pet waste to protect water quality.

Water Quality Monitoring – a monitoring protocol has already been developed by NHDES; volunteers would be trained to gather samples and manage a database.

Demonstration Projects – the methods and techniques described in the projects above could be showcased as demonstration projects throughout the watershed, where property owners would volunteer to have certain best management practices implemented on their property.

### **Publicity**

Workshop publicity will include postings on the Dover and Somersworth websites, pre- and post-workshop articles in local media outlets, direct mailings to elected officials, land use boards, property owners in the watershed and the greater communities of Dover and Somersworth.

The proposed outreach projects will be publicized through the Friends of Willand Pond group, postings on the Dover and Somersworth websites, the NROC program (see Funding Sources below), direct mailings to elected officials, land use boards, property owners in the watershed and the greater communities of Dover and Somersworth, and press releases to local media outlets.

### **Funding Sources**

The Targeted Watershed Restoration Grant will be used to:

1. organize the Friends of Willand Pond group;
2. develop content and supporting materials for the proposed workshops;
3. implement the proposed outreach projects.

The City of Dover is applying for a grant from the Natural Resource Outreach Coalition to conduct education and outreach to elected officials, land use boards and the greater communities of Dover and Somersworth to support development of improved stormwater regulations. If awarded, the NROC grant will be used to:

1. organize, facilitate and implement the workshop series; and
2. organize the Friend of Willand Pond work teams that will implement the proposed outreach projects.



## **Results**

The anticipated results of the Education and Outreach Program will be:

- ✓ a population of landowners and residents who are knowledgeable about the resources on their lands and who have a heightened sense of stewardship for these resources and the role they play in protecting them;
- ✓ a population of landowners and residents who support enhanced regulations that protect the watershed and who will spread their knowledge and enthusiasm to others in their communities; and
- ✓ municipal officials with a heightened sense of the importance of enacting and enforcing regulations that improve and protect the quality of resources in the watershed and an awareness that this mission is supported by their communities.

## **12. Final Products**

*Describe the products that will be produced as a result of this project. Examples include: outreach and educational materials; watershed management plans; monitoring plans (including QAPPs); monitoring results; engineering plans and designs; and BMPs installed. Semi-annual progress reports and a final report are required products for every project. Semi-Annual Progress Report forms are available on the DES website at [www.des.state.nh.us/wmb/was/documents/Progress\\_Report\\_Form.doc](http://www.des.state.nh.us/wmb/was/documents/Progress_Report_Form.doc) and the Final Report Guidance is at [www.des.state.nh.us/wmb/was/documents/Final\\_Report\\_Guidance06.doc](http://www.des.state.nh.us/wmb/was/documents/Final_Report_Guidance06.doc).*

Beyond the required progress and final reports, the following products will be produced as a result of this project:

- A watershed management plan;
- An approved QAPP;
- A monitoring plan and results;
- A historic timeline report of the area;
- An assessment of the current and historical drainage patterns of the area;
- An alternative analysis report;
- Conceptual design of recommended alternative; and,
- A report showcasing methods used to educate the public and documentation of support by the public for making land use regulation changes.

## **Regulations that address water quality. 13. Maintenance**

*If your project involves construction, what long-term maintenance is required and who is responsible for maintenance?*

This phase of the project does not include construction. However, if the chosen solution involves construction and the need for long-term maintenance it will likely be the responsibility of the Cities.

## 14. Objectives, Deliverables, and Tasks

Provide a detailed description of each project objective that will help achieve the desired outcome described in section 8 above, the deliverables that will be produced, and the tasks needed to produce the deliverables. Objectives need to be SMART. That is Specific, Measurable, Achievable, Relevant to the outcome, and Time-specific. For each objective, list how you will measure success.

Projects that include collection, analysis, or manipulation of environmental data, including pollutant load reduction estimates, require a Quality Assurance Project Plan (QAPP). See [www.des.nh.gov/qapp](http://www.des.nh.gov/qapp) for more information.

- This project includes collection, analysis, or manipulation of environmental monitoring data.  
 This project includes collection, analysis, or manipulation of non-monitoring environmental data.

If either of the above boxes are checked:

- A QAPP or abbreviated QAPP is available and is attached to this application.  
 Development of a QAPP for environmental monitoring data, or an abbreviated QAPP for non-monitoring environmental data is included as a task in this application.

### Example:

**Objective 1:** By September 2009, shorelines are stable and stormwater is controlled at priority sites along the targeted waterbodies, resulting in 10 tons of sediment reduction annually.

- **How will Success be Measured?** The Region 5 model will be used to estimate annual sediment load reduction from each BMP. The numerical load reductions will be supplemented by photographic documentation using DES's SOPs for Photo Documentation.
  - **Deliverable 1A:** Prioritize at least five sites along targeted waterbodies.
    - Task 1: Research available water quality data.
    - Task 2: Identify and review watershed scale map data.
    - Task 3: Organize volunteers and conduct ten shoreline surveys.
    - Task 4: Review results from task 1-3 and develop priority sites list.
  - **Deliverable 1B:** Obtain at least five landowners' approvals to host projects.
    - Task 5: Meet with landowners to assess identified sites for possible projects and develop preliminary design.
    - Task 6: Enter into Letters of Agreement with landowners.
  - **Deliverable 1C:** Install BMPs on project sites.

- Task 7: Complete site-specific BMP designs, acquire necessary local and state permits and coordinate procurement of materials.
- Task 8: Implement completed designs on project sites using recommended BMPs.

***Insert your project Objectives, Deliverables, and Tasks below:***

Objective 1: Gain a solid, science-based understanding of the past and present hydrology of the pond and surrounding area.

How will you measure success The data collected and assessment performed results in the creation of several viable solutions to address the existing water quality issues and elevated water levels of Willand Pond.

Deliverable 1A: A detailed historical timeline in 3 year increments of development in the area using 1995 as a starting point and a more cursory review from the 1940's to 1995.

- Task 1. Identify and document all stormwater management practices that have been implemented, particularly for larger projects;
- Task 2. Document changes in impervious surfaces over timeline;
- Task 3. Identify and document location of development including: residential, commercial, road widening, improvements or new installation of municipal sewer, water, drainage infrastructure;
- Task 4. Catalog information from residents of the area regarding changes to stream flows, wetlands, or other land disturbances. Compare with available aerial photographs and field verify where necessary; and,
- Task 5. Review aerial photography to determine potential sites where filling has occurred that may have disrupted water flow patterns to, through and below the wetlands. Field verify where necessary.

Deliverable 1B: A drainage and groundwater assessment of the area.

- Assess the function of existing stormwater management facilities in the area of concern to determine problems/deficiencies;
- Task 6. Evaluate the hydrologic regime of Willand Pond – connection to Peters Marsh Brook, closed system (perched water table, kettle hole?), contribution of groundwater springs and urban runoff;
- Task 7. Estimate the cumulative impact of impervious surfaces and the displacement of runoff;
- Task 8. Model stormwater volume and quality based on changes in impervious surface coverage from 1995;
- Task 9. Conduct a preliminary nutrient loading budget to determine actual or potential sources of nutrients;

Task 10. Perform evaluation of Peters marsh brook wetland complex to determine any change in hydrology and, if so, why.

Deliverable 1C: A watershed and wetlands map

Task 11. Flag wetland boundaries

Task 12. Create digital boundary of wetlands using GIS;

Task 13. Delineate watershed using a point just south of the waterline that extends from Home Depot to Willand Drive based on a survey of two-foot contour intervals; and,

Task 14. Include underground stormwater drainage in watershed delineation.

Objective 2: Revise Subdivision and Site plan Regulations to protect the water quality in and around Willand Pond and other areas of Dover and Somersworth.

How will you measure success? The adoption of land use regulations requiring no additional runoff or nutrient loading in and around Willand Pond and requiring the use of innovative BMP's designed to specifically address water quality.

Deliverable 2A: Draft language to incorporate into Subdivision and Site Plan Regulations

Task 15. Collect and evaluate model regulations addressing stormwater quality issues;

Task 16. Select model regulation as a starting point and incorporate language specifically designed to address local water quality concerns;

Task 17. Evaluate draft language to be consistent with other local, state, and federal laws and modify as needed;

Task 18. Present and explain draft regulations to appropriate local land use boards and revise as necessary; and,

Task 19. Appropriate authority adopts proposed revisions.

Objective 3: Create a set of viable solutions to mitigate/remediate water quality concerns and elevated water levels and provide recommendation on a preferred alternative and possible funding mechanisms .

How will you measure success? A solution is selected from the alternatives and moves forward to the design phase.

Deliverable 3A: An alternative analysis report

Task 20. Develop a set of viable alternatives based on the data collection and assessment including an opinion of cost;

Task 21. Evaluate the set of alternatives;

- Task 22. Select and provide rationale for preferred alternative;  
and,
- Task 23. Provide list of possible funding sources.

Objective 4: Guide monitoring through an approved QAPP

How will you measure success? Completion of monitoring plan.

Deliverable4A: A QAPP

- Task 24. Draft QAPP and send to DES and EPA for review and  
comment;
- Task 25. Revise QAPP based on comments received from DES  
and EPA;
- Task 26. Work with DES to get QAPP approved; and,
- Task 27. Finalize QAPP

Objective 5: Develop a watershed based plan addressing impairment of Willand Pond.

How will you measure success? The plan addresses all items required for a watershed based plan (see Section VI a thru I in proposal)

Deliverable5A: A Watershed based plan

- Task 28. Draft plan and send to DES for review and comment;
- Task 29. Revise plan based on comments received from DES;  
and,
- Task 30. Finalize plan with DES.

Objective 6: Develop a long term public outreach and education programs.

How will you measure success? Success will be measures by showcasing that a population of landowners, residents, and municipal officials have increased their knowledge about the impacts development has on the surrounding natural resource, and an increased understanding of stewardship. Additional success will be demonstrated through the passage of land use regulations with the support of the same population of landowners and residents.

Deliverable6A: Friends of Willand Pond

- Task 31. Draft plan to develop regional group, including potential  
membership, as well as potential goals and objectives;
- Task 32. Organize meetings to transition Dover's Willand Pond  
Ad-hoc committee into Friends group,

Task 33. Invite outside stakeholders to create as broad a stakeholder community as possible.

Task 34. Evolve Ad-hoc committee into a larger conservancy group advocating for environmental and recreational uses around the pond.

Deliverable6B: Workshops

Task 35. Draft plan to develop stewardship and other educational workshops demonstrating the spirit and intent of stewardship;

Task 36. Develop materials to educate the public at the workshops and online,

Task 37. Develop press releases and newspaper announcements,

Task 38. Develop follow up materials to gauge effectiveness of material

Task 39. Hold workshops,

Task 40. Follow up with attendees

*Insert additional Objectives and their associated Deliverables and Tasks as needed.*

## 15. Schedule and Budget

*In Table A, list in sequence the project Tasks from Section 14, their estimated scheduled completion dates, and costs. Progress reports are required for every project and are due at the end of June and December for each year of the project period. A final project report, including an executive summary, is also required for every project. Identify, as appropriate, any contracts to be awarded or Quality Assurance Project Plans (QAPPs) to be developed as tasks.*

### A. Project Costs by Task

Task#	Brief Description of Task	Proposed Date(s)	Requested grant amount	Non-federal match amount	Total cost of task
1	Deliverable 1A	Summer 2008	5,200	7,000	12,200
2	Deliverable 1B	Summer 2008	13,000	7,000	20,000
3	Deliverable 1C	Summer 2008	10,400	8,000	18,400
4	Deliverable 2A	Fall 2008	1,560	12,800	14,360
5	Deliverable 3A	Fall 2008	16,000	3,200	19,200
6	Deliverable 4A	Summer 2008	1,040	3,200	4,240
7	Deliverable 5A	11/08	2,080	3,000	5,080
8	Deliverable 6A	Winter 2008	15,000	2,560	17,560
9	Deliverable 6B	Ongoing	4,000	13,800	17,800

Task#	Brief Description of Task	Proposed Date(s)	Requested grant amount	Non-federal match amount	Total cost of task
10	Administration and Support for Deliverables (travel, printing, office supplies, cost of doing business)	Ongoing	0	4,822	4,822
	Progress reports	6/08	0	1,280	1,280
	Final project report	9/08	0	1,280	1,280
<b>Totals</b>			<b>68,280</b>	<b>67,942</b>	<b>136,222</b>

In Table B below, list your project costs by budget type.

**B. Project Costs by Category**

Budget Category						Requested grant amount	Non-federal match amount	Total cost of category
<b>1. Salary &amp; Fringe</b>								
Include salaries and fringe benefits paid for work performed on the project. "Salary" should reflect the rate per hour, by position. "Fringe benefits" are employment benefits given in addition to one's wages or salary.								
Name	Title	Salary Hourly rate	Approx. # of Hours	Salary Charged to Project	Fringe			
Chris Parker	Planning Director	36	120	10,320	50	0	10,320	10,320
Craig Wheeler	Dir. Of Dev. Services	40	120	10,800	50	0	10,800	10,800
Dave Sharples	City Planner	27	276	21,200	50	0	21,200	21,200
Dean Peschel	Env Project Manager	35	40	3,400	50	0	3,400	3,400
Chris Jacobs, PE, LLS	City Engineer	80	120	15,600	50		15,600	15,600
Volunteer Group	Volunteer	18	80	1800	0	0	1,800	1,800
					Subtotal	0	63,120	63,120
<b>2. Indirect Cost of Salary</b>								
Indicate the indirect costs. Typical indirect costs are associated with but are not limited to office space, telephones, personnel administration, accounting, and room or equipment rental and usage (i.e., the cost of doing business).								
5% of "Salary Charged to Project" in # 1 above						0	3,100	3,100
<b>3. Supplies</b>								
Includes field and lab supplies; data processing materials; equipment costing less than \$1,000; clothing; books, paper, and other office supplies.								
Printing (inc. plotter), postage, ink, toner, paper, news releases						0	1,500	1,500
<b>4 Equipment</b>								
List any item(s) of equipment costing more than \$1,000 in total. Equipment costing less than \$1,000 should be listed in Supplies (#3).								
						0	0	0
<b>5. Travel and Training</b>								
Includes project-related charges for travel (travel, tolls), and charges as a result of use of an auto. Vehicle costs should be shown as the number of miles times the mileage rate being applied. Mileage rates cannot exceed the Standard Mileage Rate provided by the Internal Revenue Service (see <a href="http://www.irs.gov/index.html">www.irs.gov/index.html</a> )								
500 miles @ \$0.445/mile						0	222	222
<b>6. Contractual</b>								
Includes expenditures made to sub-grantees/sub-contractors, hired speakers, legal services, cost of engineering and design, etc. The rate of pay per hour, number of hours and type of service provided should be included. Any procured services not provided by the Grantee should be listed here.								
Consultant						68,280	0	68,280
<b>7. Construction</b>								
Costs (construction contracts, cost share agreements, etc.) associated with construction. Permit fees can be included.								



	0	0	0
<b>8. Other (specify)</b> Includes postage, printing, license fees, equipment maintenance and repair, computer software, non-staff insurance. Any item greater than \$1,000 must be itemized below.			
	0	0	0
<b>Totals</b>	<b>68,280</b>	<b>67,942</b>	<b>136,222</b>

### APPENDIX A. Pollutant Categories, Categories of Activity, BMP Names

Please mark the specific pollutant categories, categories of activity, and BMP names that apply to your project on the following lists (Check all that apply).

#### NPS Primary Pollutant Category

<input type="checkbox"/> 0000 All Sources	<input type="checkbox"/> 6000 Land Disposal/Storage/Treatment
<input type="checkbox"/> 1000 Agriculture	<input type="checkbox"/> 7000 Hydromodification
<input type="checkbox"/> 1600 Animal Feeding Operations	<input type="checkbox"/> 7900 Marinas and Recreational Boating
<input type="checkbox"/> 2000 Silviculture	<input type="checkbox"/> 8000 Other NPS Pollution
<input type="checkbox"/> 3000 Construction	<input type="checkbox"/> 8500 Historical Pollutants
<input checked="" type="checkbox"/> 4000 Urban Runoff/Stormwater	<input type="checkbox"/> 8700 Turf Management
<input type="checkbox"/> 5000 Resource Extraction	

#### NPS Secondary Pollutant Category

<input type="checkbox"/> 1350 Grazing-Related Source	<input type="checkbox"/> 7100 Channelization
<input type="checkbox"/> 1400 Pasture Grazing	<input type="checkbox"/> 7190 Channel Erosion/Incision
<input type="checkbox"/> 2200 Forest Management (e.g. pumped drainage/fertilization/pesticide application)	<input type="checkbox"/> 7200 Dredging
<input type="checkbox"/> 2300 Road Construction/Maintenance	<input type="checkbox"/> 7300 Dam Construction
<input checked="" type="checkbox"/> 3100 Highways/Roads/Bridges	<input type="checkbox"/> 7350 Upstream Impoundment
<input checked="" type="checkbox"/> 3200 Land Development or Redevelopment	<input checked="" type="checkbox"/> 7400 Flow Regulations/Modifications
<input type="checkbox"/> 4190 Municipal	<input type="checkbox"/> 7550 Other Habitat Modification
<input checked="" type="checkbox"/> 4191 Commercial	<input type="checkbox"/> 7600 Removal of Riparian Vegetation
<input checked="" type="checkbox"/> 4192 Residential (e.g. non-commercial automotive/pet waste/etc.)	<input type="checkbox"/> 7700 Streambank or Shoreline Modification/Destabilization
<input type="checkbox"/> 4400 Illicit Connections/Illegal Hook-ups	<input type="checkbox"/> 7800 Drainage/Filling of Wetlands
<input type="checkbox"/> 4450 Dry Weather Flows	<input type="checkbox"/> 7996 Shoreline Erosion
<input checked="" type="checkbox"/> 4500 Highway/Road/Bridge Runoff	<input type="checkbox"/> 7998 Dredging
<input checked="" type="checkbox"/> 4590 Post-Development Erosion and Sedimentation	<input type="checkbox"/> 8100 Atmospheric Deposition
<input type="checkbox"/> 4650 Salt Storage Sites	<input type="checkbox"/> 8590 Contaminated Sediments
<input type="checkbox"/> 5990 Sand/Gravel Mining	<input type="checkbox"/> 8591 Clean Sediments
<input type="checkbox"/> 6200 Wastewater	<input type="checkbox"/> 8592 Other Historical Pollutants
<input type="checkbox"/> 6300 Landfills	<input type="checkbox"/> 8600 Natural Sources
<input type="checkbox"/> 6350 Inappropriate Waste Disposal	<input type="checkbox"/> 8700 Recreational and Tourism Activities (non-boating)

<input type="checkbox"/> 6400 Industrial Land Management	<input type="checkbox"/> 8710 Golf Courses
<input type="checkbox"/> 6500 On-site/Decentralized Wastewater Treatment	<input type="checkbox"/> 8790 Yard Maintenance
<input type="checkbox"/> 6700 Septage Disposal	<input type="checkbox"/> 8910 Groundwater Loadings
<input type="checkbox"/> 6800 Waste Storage/Storage Tank Leaks (above ground)	<input type="checkbox"/> 8950 Wildlife
<input type="checkbox"/> 6900 Waste Storage/Storage Tank Leaks (below ground)	

### NPS Functional Category of Activity

<input type="checkbox"/> 010 Corrective Action (other than BMP Implementation)	<input type="checkbox"/> 320 Inspection Activities
<input type="checkbox"/> 011 BMP Design/Implementation	X <input type="checkbox"/> 330 Ordinance Development
<input type="checkbox"/> 012 BMP Performance Assessment	<input type="checkbox"/> 340 Enforcement Activities
<input type="checkbox"/> 013 Animal Manure/Litter Management Projects	X <input type="checkbox"/> 401 Nutrient Management Planning
<input type="checkbox"/> 014 Livestock Control Projects	X <input type="checkbox"/> 402 Stormwater Management Planning
<input type="checkbox"/> 016 Vegetation Management/Revegetation	X <input type="checkbox"/> 410 Watershed Restoration Action Strategy (WRAS)/Watershed Planning
<input type="checkbox"/> 017 Stream Bank Stabilization	<input type="checkbox"/> 420 Develop/Revise Basin Plans
<input type="checkbox"/> 018 Grade Stabilization	<input type="checkbox"/> 430 TMDLs
<input type="checkbox"/> 019 Sediment Control	<input type="checkbox"/> 440 Nonstructural Planning (for new development)
X <input type="checkbox"/> 020 Stormwater Discharge Design/Control	X <input type="checkbox"/> 490 Other Planning
<input type="checkbox"/> 021 Erosion Control Projects	<input type="checkbox"/> 501 Instream Flow Assessment
<input type="checkbox"/> 023 Wetland Restoration/Protection	X <input type="checkbox"/> 502 Assessments for Compliance with Water Quality Standards
<input type="checkbox"/> 024 Acquisition of Riparian Resources	X <input type="checkbox"/> 503 Wetland Assessment/Monitoring
<input type="checkbox"/> 025 Riparian Projects	<input type="checkbox"/> 505 TMDL Assessment
<input type="checkbox"/> 026 Fisheries Projects	<input type="checkbox"/> 510 Water Quality Trend Assessment
<input type="checkbox"/> 027 Other Restoration/Protection/Prevention	X <input type="checkbox"/> 520 Water Quality Problem Identification
<input type="checkbox"/> 100 Statewide Education/Information Programs	X <input type="checkbox"/> 590 Other Water Quality Assessment/Monitoring
<input type="checkbox"/> 101 Local (Specific Target) Education/Information Programs	<input type="checkbox"/> 600 BMP Effectiveness Monitoring
<input type="checkbox"/> 200 Technical Assistance to State/Local	<input type="checkbox"/> 610 Biological Monitoring
<input type="checkbox"/> 201 Nonpoint Source Program Overall Coordination/Management	X <input type="checkbox"/> 620 Watershed Assessments
X <input type="checkbox"/> 202 Nonpoint Source Project Staffing	<input type="checkbox"/> 800 319(h) National Monitoring Projects
<input type="checkbox"/> 230 Technology Transfer to State/Local Government	X <input type="checkbox"/> 910 Groundwater (all groundwater activities)
<input type="checkbox"/> 290 Other Technical Assistance Activity	<input type="checkbox"/> 920 Antidegradation Activities and Analysis
<input type="checkbox"/> 300 Certification Activities	X <input type="checkbox"/> 930 Soil Analysis

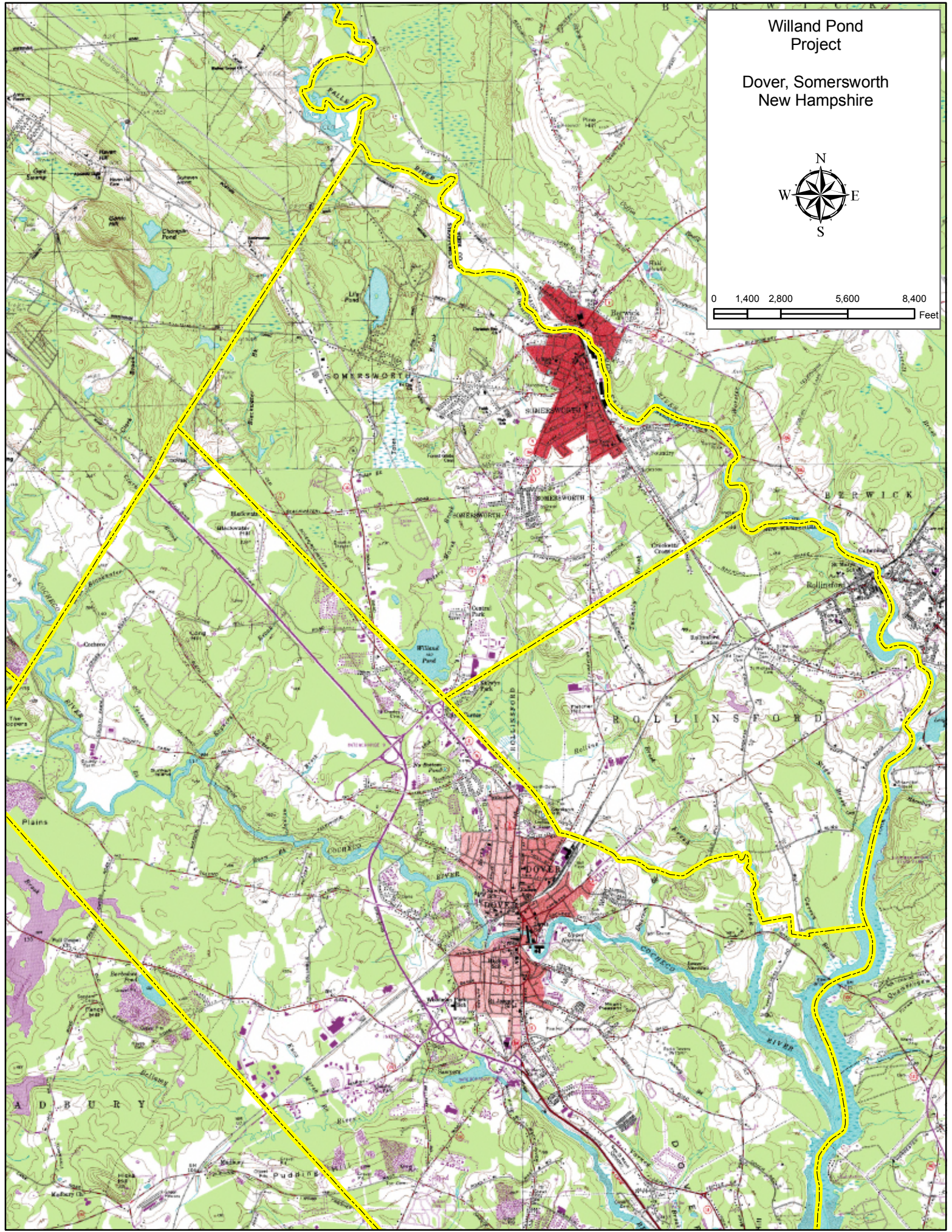
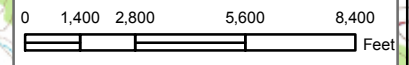
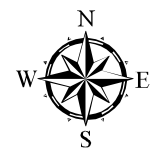
**Best Management Practice (BMP Name)**

X  **Not applicable At this time**

<input type="checkbox"/> 921 Alternative Septic System	<input type="checkbox"/> 451 Land Reclamation
<input type="checkbox"/> 914 Alternative Water Source	<input type="checkbox"/> 472 Livestock Exclusion
<input type="checkbox"/> 575 Animal Trails & Walkways	<input type="checkbox"/> 590 Nutrient Management
<input type="checkbox"/> 916 Baffle Boxes	<input type="checkbox"/> 010 Oil and Grit Separator
<input type="checkbox"/> 537 Barnyard Runoff Control	<input type="checkbox"/> 595 Pest Management
<input type="checkbox"/> 322 Channel Vegetation	<input type="checkbox"/> 915 Pesticide Management
<input type="checkbox"/> 317 Composting	<input type="checkbox"/> 562 Recreational Area Improvement
<input type="checkbox"/> 327 Conservation Cover	<input type="checkbox"/> 566 Recreational Land Grading/Shaping
<input type="checkbox"/> 328 Conservation Crop Rotation	<input type="checkbox"/> 568 Recreational Trail/Walkway
<input type="checkbox"/> 329 Conservation Tillage	<input type="checkbox"/> 558 Roof Runoff Management
<input type="checkbox"/> 332 Contour Buffer Strips	<input type="checkbox"/> 570 Runoff Management System
<input type="checkbox"/> 335 Controlled Drainage	<input type="checkbox"/> 350 Sediment Basin
<input type="checkbox"/> 342 Critical Area Planting	<input type="checkbox"/> 009 Stream Channel Restoration (Dam Removal)
<input type="checkbox"/> 349 Dam-Multiple Purpose	<input type="checkbox"/> 584 Stream Channel Stabilization
<input type="checkbox"/> 581 Ditch Stabilization	<input type="checkbox"/> 580 Streambank and Shoreline Protection
<input type="checkbox"/> 362 Diversion	<input type="checkbox"/> 612 Tree Shrub Establishment
<input type="checkbox"/> 007 Dredging	<input type="checkbox"/> 901 Urban Catch Basin
<input type="checkbox"/> 382 Fence	<input type="checkbox"/> 902 Urban Catch Basin-Oil
<input type="checkbox"/> 386 Field Border	<input type="checkbox"/> 903 Urban Catch Basin-Sand
<input type="checkbox"/> 393 Filter Strip	<input type="checkbox"/> 904 Urban Concrete Grid
<input type="checkbox"/> 396 Fish Passage	<input type="checkbox"/> 905 Urban Ext Detention Pond
<input type="checkbox"/> 395 Fish Stream Improvement	<input type="checkbox"/> 906 Urban Filtration Basin
<input type="checkbox"/> 408 Forest-Erosion Control	<input type="checkbox"/> 907 Urban Grassed Swale
<input type="checkbox"/> 654 Forest-Improved Harvest	<input type="checkbox"/> 908 Urban Infiltration Basin
<input type="checkbox"/> 409 Forest-Land Management	<input type="checkbox"/> 909 Urban Infiltration Trench
<input type="checkbox"/> 666 Forest-Stand Improvement	<input type="checkbox"/> 910 Urban Porous Pavement
<input type="checkbox"/> 655 Forest-Trails and Landings	<input type="checkbox"/> 911 Urban Stormwater Wetland
<input type="checkbox"/> 391 Forest Buffer-Riparian	<input type="checkbox"/> 912 Urban Vegetated Filter
<input type="checkbox"/> 410 Grade Stabilization Structure	<input type="checkbox"/> 913 Urban Wet Pond
<input type="checkbox"/> 412 Grassed Waterway	<input type="checkbox"/> 601 Vegetated Barriers
<input type="checkbox"/> 011 Green Roof System	<input type="checkbox"/> 312 Waste Management System
<input type="checkbox"/> 647 Habitat Development/Management	<input type="checkbox"/> 313 Waste Storage Facility
<input type="checkbox"/> 643 Habitat Restoration	<input type="checkbox"/> 635 Wastewater Treatment Strip
<input type="checkbox"/> 561 Heavy Use Area Protection	<input type="checkbox"/> 917 Watershed Management Plan
<input type="checkbox"/> 920 In-Lake Alum Treatment	<input type="checkbox"/> 638 Water/Sediment Control Basin

# Willand Pond Project

Dover, Somersworth  
New Hampshire



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December 6, 2007

**VIA ELECTRONIC MAIL**  
**And FIRST CLASS MAIL**

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Director of Development Services  
City of Somersworth  
One Government Way  
Somersworth, New Hampshire 03878

**RE: Robert Stackpole/Willand Pond**

Dear Misters Parker and Wheeler:

As you know, this office represents Mr. Robert Stackpole. Mr. Stackpole owns property located in Somersworth, New Hampshire, which abuts Willand Pond, which is identified as Map 43, Lot 1 on the Somersworth Tax Maps. The land is comprised of approximately 65+/- acres.

Although Mr. Stackpole's property is currently undeveloped, he is, as is the City of Dover and the City of Somersworth, concerned with the issues that are developing with respect to the Pond. In light of Mr. Stackpole's concerns, he initiated a meeting in September of this past year with the City of Somersworth, in an effort to express his willingness to support the efforts by the City of Somersworth, and consequently the City of Dover, with respect to addressing the existing issues with Willand Pond. The purpose of that meeting was for Mr. Stackpole to suggest that he would be willing to discuss the use of a portion of his property to the extent that the municipalities wish to create, at their sole expense, additional drainage from Willand Pond. At that meeting, it was specifically suggested by Mr. Stackpole that there exists an area, which is mostly comprised of wetlands, that could be utilized by the municipalities to

create drainage that might flow beneath the proposed Commercial Drive, and eventually to the Salmon Falls River.

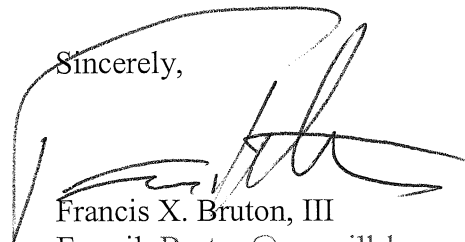
Mr. Stackpole understands that the use of this portion of his property would be beneficial to the municipalities and that the municipalities may wish to either purchase this portion of his property, or may consider the utilization of an easement for these purposes. We understand that no definitive plan has been developed at this point, and, as such, Mr. Stackpole cannot agree to any particular proposal, as no specific proposal exists. However, we were asked by Mr. Parker, to confirm Mr. Stackpole's willingness to move forward with the municipalities and provide as much assistance as he can. Mr. Stackpole is willing to consider the use of his property in order to assist the municipalities, and would look forward to working with the cities and, to the extent practicable, accommodate their needs.

Mr. Stackpole would expect, to the extent that a portion of Mr. Stackpole's property is utilized to create a new drainage flow for Willand Pond, that considerations would be made to allow the drainage from Mr. Stackpole's property to flow into any such new facilities that are created, to the extent that he develops his land.

We understand that it is a bit premature to specifically understand exactly what the proposal would be with respect to possibly using Mr. Stackpole's property, however, we understand that the cities are meeting with the state, with respect to their application for a Watershed Restoration Grant from the Department of Environmental Services, and that the municipalities need, for that interview, an affirmative statement from Mr. Stackpole, indicating his willingness to work with the municipalities with respect to their efforts regarding Willand Pond.

Should you have any questions at all with respect to the above, please do not hesitate to contact me at your earliest convenience.

Sincerely,



Francis X. Bruton, III

E-mail: [Bruton@mcneill-law.com](mailto:Bruton@mcneill-law.com)

FXB/mac

cc: Mr. Robert Stackpole