

**Summary of Activities for the Nottingham Water Well Survey  
Final Report to the New Hampshire Coastal Program:  
Natural Resources Outreach Coalition Implementation Grant**

**Submitted by Susan P. Mooney, Project Coordinator**

**Well Survey: Project Overview**

The Nottingham Water Well Survey was a result of a partnership initiative between the Town of Nottingham, NH, and the Natural Resources Outreach Coalition (NROC) in 2003 - 2004. In 2003, the Nottingham Conservation Commission (NCC) applied to NROC to be one of the projects that NROC assumes each year in which communities are provided with personnel and financial assistance for issues that address population growth and population growth planning. The application was accepted and Amanda Stone and Frank Mitchell were the NROC project sponsors for Nottingham.

**Well Survey: Planning and Development**

Community boards and municipal groups and citizens were invited to attend formative meetings held in early 2004 to determine the direction of the NROC initiative. Public notice for these meetings were posted and the progress resulting from the NROC/Nottingham partnership was covered in the bimonthly editions of the *Nottingham Newsletter*. At the early "Dealing With Growth in Nottingham" meetings of information gathering and deliberation, how population growth impacts Nottingham's water resources evolved to be the focus of the project. At this time, the Nottingham Planning Board (NPB) joined with the NCC as an equal partner in moving forward with the project.

NROC was also sponsoring the town of Candia, NH, and they decided to direct attention to their water resources as well. On February 3, 2004, community members from both towns attended a "Dealing with Growth" follow-up meeting to discuss planning tools that address ground water issues. Dr. David Wunsch, NH Geological Survey, spoke on *Groundwater Concepts and a Review of Regional Groundwater Study* and Ted Diers, NH Coastal Program, presented *Groundwater Resources, Protecting What You Have*. These presentations were discussed at the next "Dealing With Growth" meetings in March and April when it was decided to conduct a town wide water well survey. Candia would be doing a similar project. On August 10, members of both communities reviewed several sample well water surveys from other communities to determine the format and appropriate content for Nottingham and Candia. Amanda Stone submitted our grant request to the Coastal Program and they accepted our application for funding this project.

**Well Survey: Results and Products**

The edited well survey was received and a local printer who does the *Nottingham Newsletter* for expenses only also agreed to do the Water Well Survey as a community service in the same user-friendly font and format. After the surveys and return envelopes were printed, volunteers stamped the return envelopes, and stuffed, folded and sorted the

surveys for mailing. In October, **1758 surveys were mailed out** to all mailing addresses in Nottingham and by the end of November, **417 ((26.8%) were returned**. At that point, a computer program needed to be designed for inputting the survey responses. When that was complete, volunteers spent several sessions doing just that. After compilation, total numbers were entered into the *Water Well Survey Results* that was mailed to all addresses in Nottingham in December. A copy of the survey used is on pages 3 and 4 of this document.

At Town Meeting on March 19, 2005, a display poster with narrative, maps, and graphs, along with three copies of the draft *Results and Summative Document of the Nottingham Water Well Survey, November 2004*, was noted by townspeople. The final completed Document will be submitted to NROC and to the Coastal Program.

### **Well Survey: Follow-up Activities**

The *Results and Summative Document* will be available at the Blaisdell Memorial Library, the Selectmen's Office, and the Planning Zoning Office for use by citizens. It is intended that this document be adopted as part of the *Master Plan of Nottingham* and that the information gathered would be invaluable for discussions and in decisions made as Nottingham deals with issues of water resources and population growth.

# Nottingham Water Well Survey

To help your local officials better assess current water needs and plan for the future, please answer the following questions. This information is being collected for **research purposes**. The results of this survey will be reported only in **anonymous summary form, and individual surveys will be kept confidential**. Thank you for taking time to help us compile this important information.

We realize you may not have the information available to answer all of these questions.

Please answer whatever questions you can.

If you have your well records, these will be helpful for answering the questions below

PLEASE CHECK ( ✓ ) OR PROVIDE YOUR MOST APPROPRIATE RESPONSE  
FOR EACH QUESTION YOU CAN ANSWER.

*Fold and mail the completed survey in the enclosed pre-addressed, stamped envelope, by **November 10, 2004**. These completed surveys can also be dropped in the collection box at the Town Office Building.*

**Last Name** \_\_\_\_\_ **First Name** \_\_\_\_\_

(optional) \_\_\_\_\_ (optional) \_\_\_\_\_

**Street Address** \_\_\_\_\_

**Town** \_\_\_\_\_ **Tax map & Parcel Number** \_\_\_\_\_

**Number of Wells at this Address** \_\_\_\_\_ **Lot size** \_\_\_\_\_ acres

**Number of Full-Time Residents** \_\_\_\_\_

Please provide descriptive information (if known) for each well on your property, in the space provided below:

		Well #1	Well #2	Well #3
<b>Use of Well</b> <i>(check all that apply)</i>	Residential.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Commercial/Industrial.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Shared Water Supply.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Agricultural.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Irrigation (lawn & garden).....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Irrigation (commercial/farm).....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Out of service ( <i>Why?</i> ).....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other ( <i>Describe</i> ) _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>Type of Well Construction</b>	Drilled in Bedrock.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Drilled in sand/Gravel.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Driven Point.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Dug.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Other ( <i>Describe</i> ) _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Reason for Constructing a New or Additional Well</b>	Not Applicable.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	New Home.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Replace Existing Well.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Provide Additional Supply.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Other ( <i>Describe</i> ) _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Total Depth of Well (in feet)</b>				
<b>Depth to Bedrock (in feet)</b>				
<b>Length of Casing Installed in Well (in feet)</b>				
<b>Well Casing extends above ground (inches)</b>				
<b>Well Yield (in gallons per minute)</b>				
<b>Date the well was drilled (or approximate age of well in years)</b>				

**What type of residence occupies your property?**

<input type="checkbox"/> Single family house <input type="checkbox"/> <2000 ft <sup>2</sup> <input type="checkbox"/> 2000 -4000 ft <sup>2</sup> <input type="checkbox"/> >4000 ft <sup>2</sup>	<input type="checkbox"/> “Attached house” (shared walls between units) (e.g. Condominium or townhouse)	<input type="checkbox"/> Mobile home <input type="checkbox"/> Apartment
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**What are the primary activities if the property is non-residential?**

<input type="checkbox"/> Commercial (type of business): _____ <input type="checkbox"/> Industrial (type of business): _____	<input type="checkbox"/> Farm (describe) _____ <input type="checkbox"/> Nursery <input type="checkbox"/> Livestock <input type="checkbox"/> OTHER (describe) _____
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**WATER QUANTITY ISSUES:**

**How have you been affected by droughts during the past 10 years?**

	Well #1	Well #2	Well #3
No problem .....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Had to limit household use.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Not enough water to irrigate as much as I wanted.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Couldn't irrigate at all.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Well(s) went completely dry.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Have you run out of water during the past five years for reasons other than mechanical pump failure?**

Never.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Once (state which year and month) _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
More than once (state how often) _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Regularly.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**If applicable, how have you dealt with these water shortages?**

<input type="checkbox"/> Purchased bottled water <input type="checkbox"/> Purchased bulk water	<input type="checkbox"/> Conserved or self-limited use <input type="checkbox"/> Other (Describe) _____
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**Have you taken any of the following actions to conserve water? (Please check all that apply)**

<input type="checkbox"/> Take shorter showers <input type="checkbox"/> Repair running toilet <input type="checkbox"/> Installed low-flow plumbing fixture(s) <input type="checkbox"/> Reduced landscape area irrigated	<input type="checkbox"/> Water outdoors during early morning or evening <input type="checkbox"/> Installed a water efficient irrigation system <input type="checkbox"/> Other (Please specify) _____
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**WATER QUALITY ISSUES:**

**Do you have a point-of-entry water treatment system in your home?**

<input type="checkbox"/> Yes	<input type="checkbox"/> No
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**Do you have any of the following color stains in your water fixtures (toilet bowl, etc.)**

<input type="checkbox"/> Green <input type="checkbox"/> Rust/brown/orange	<input type="checkbox"/> Black <input type="checkbox"/> Blue	<input type="checkbox"/> Other (describe)
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