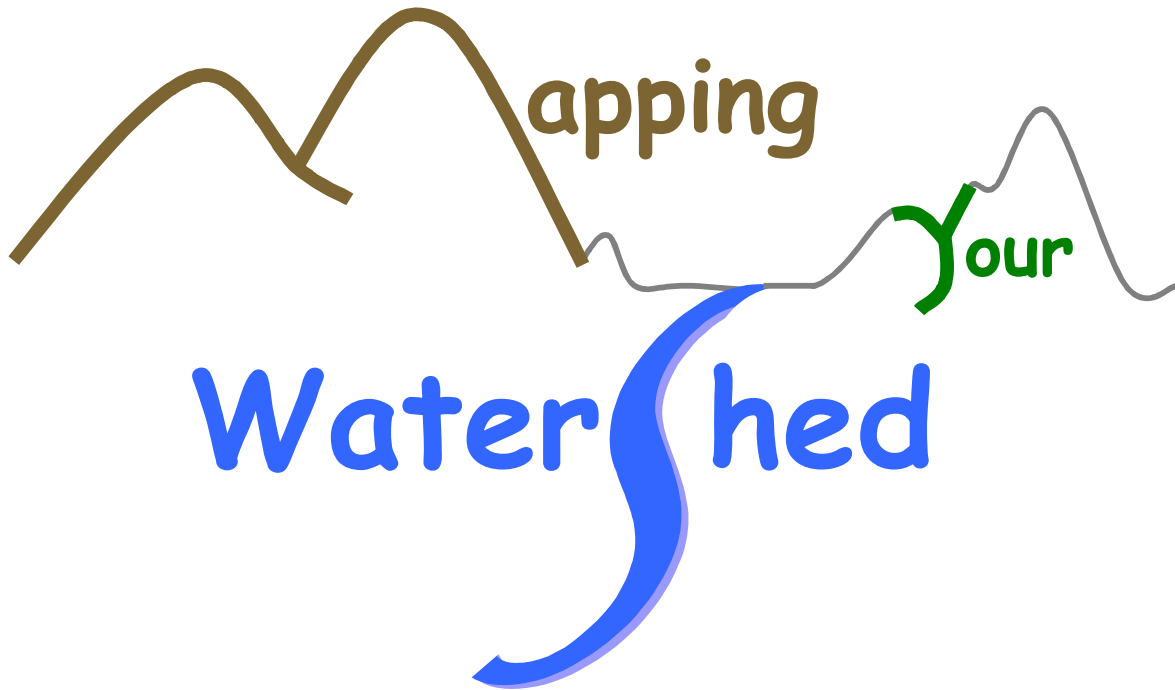




## Northampton County Conservation District

### Act 48 Continuing Education Workshop:



**Date:** Thursday, October 24, 2013

**Time:** 8:00AM – 4:00PM

**Location:** Lower Mt. Bethel Township Welcome Center, Martins Creek

**Capacity:** 20 Teachers (most appropriate for middle & high school teachers)

**Registration Deadline:** October 10, 2013

**A Watershed Tool Kit will be provided to each participating educator.**



**Lunch will be provided, too!**



***A total of six (6) Act 48 Professional Development Activity Hours will be granted to PA registered teachers upon completion of the course.***

*“Any river is really the summation of the whole valley.  
To think of it as nothing but water is to ignore the greater part.”*

- Hal Borland: [This Hill, This Valley](#)

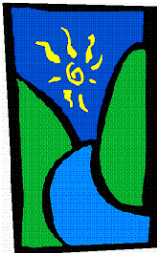
# "Mapping your Watershed": Understanding Your Place in a Watershed

The workshop will include instruction, discussion, field experience, and activities conducted by:

- Northampton County Conservation District (NCCD)
- Martins-Jacoby Watershed Association (MJWA)
- PPL Corporation
- Nurture Nature Foundation (NNF)
- Penn State Extension

The workshop will provide educators with an introduction to the interpretation and application of topographic maps in reference to watersheds. The workshop will also include an overview of watersheds and their current issues and threats, including non-point source (NPS) pollution, flooding, and land use. Field exercises will include the use of various tools for field watershed delineation and a Watershed Tour within the Delaware River watershed which will cover: how the water shapes the land, how the land shapes the water, and how human land use and activity are affected by the watershed. NOTE: trail terrain is rocky.

The purpose of the workshop is to provide educators with curriculum based material and to provide educators with required Act 48 continuing education hours. The content of this workshop meets the Pennsylvania Academic Standards for Science & Technology and Environment & Ecology for grades 4 through 12, including such topics as unified themes, earth sciences, watersheds, environmental health, and humans and the environment. Financial and other support for this project is provided by the Pennsylvania Association of Conservation Districts, Inc. through a grant from the Pennsylvania Department of Environmental Protection under Section 319 of the Clean Water Act, administered by the U.S. Environmental Protection Agency.



## Workshop topics:

- Watershed Basics
- Topographic Map Terminology & Interpretation
- Watershed Delineation (Classroom & Field)
- Current Watershed Issues and Threats
- Watershed Tour & Classroom Activities



**Call or email NCCD with questions  
(610) 746-1971 / [northamptoncd@northamptoncd.org](mailto:northamptoncd@northamptoncd.org)**

**Registration and a \$10 fee are required for the workshop. Please complete the attached form to register.**

Please complete the form below and detach, include \$10 (cash/check), and mail the fee and registration form to the Northampton County Conservation District, Greystone Building, 14 Gracedale Avenue, Nazareth, PA 18064-9211. Please make checks payable to: Northampton County Conservation District (NCCD). Upon receipt of your registration, a workshop packet will be sent to you with directions and additional details.

**Registration Deadline is October 10, 2013**

Name: \_\_\_\_\_

Organization/School: \_\_\_\_\_ Grade Level: \_\_\_\_\_

Are you a registered teacher with PA Department of Education? Circle YES or NO

Address: \_\_\_\_\_

City: \_\_\_\_\_ Zip code: \_\_\_\_\_ Phone: \_\_\_\_\_

Email \_\_\_\_\_

Please indicate if an alternative lunch option is required and we will try to accommodate (i.e. vegetarian, gluten-free, etc.):  
\_\_\_\_\_