Supporting Municipal Actions to Protect and Improve Water Quality

MTAAP Meeting

October 7, 2016

DELAWARE VALLEY dvrpc REGIONAL PLANNING COMMISSION

Today's Agenda

- Welcome & Introductions [20 minutes]
- Update on Municipal Case Study Phase [10 minutes]
- Presentation by Scott Haag and Lin Perez from ANSP [30 minutes]
- Promising Recommendations and Activity [1.5 hours]
- Wrap Up/Announcements [5 minutes]
- Lunch

Introductions: DVRPC Team

- Laura An
- Melissa Andrews
- Christina Arlt
- Alison Hastings
- Patty Elkis
- Chris Linn

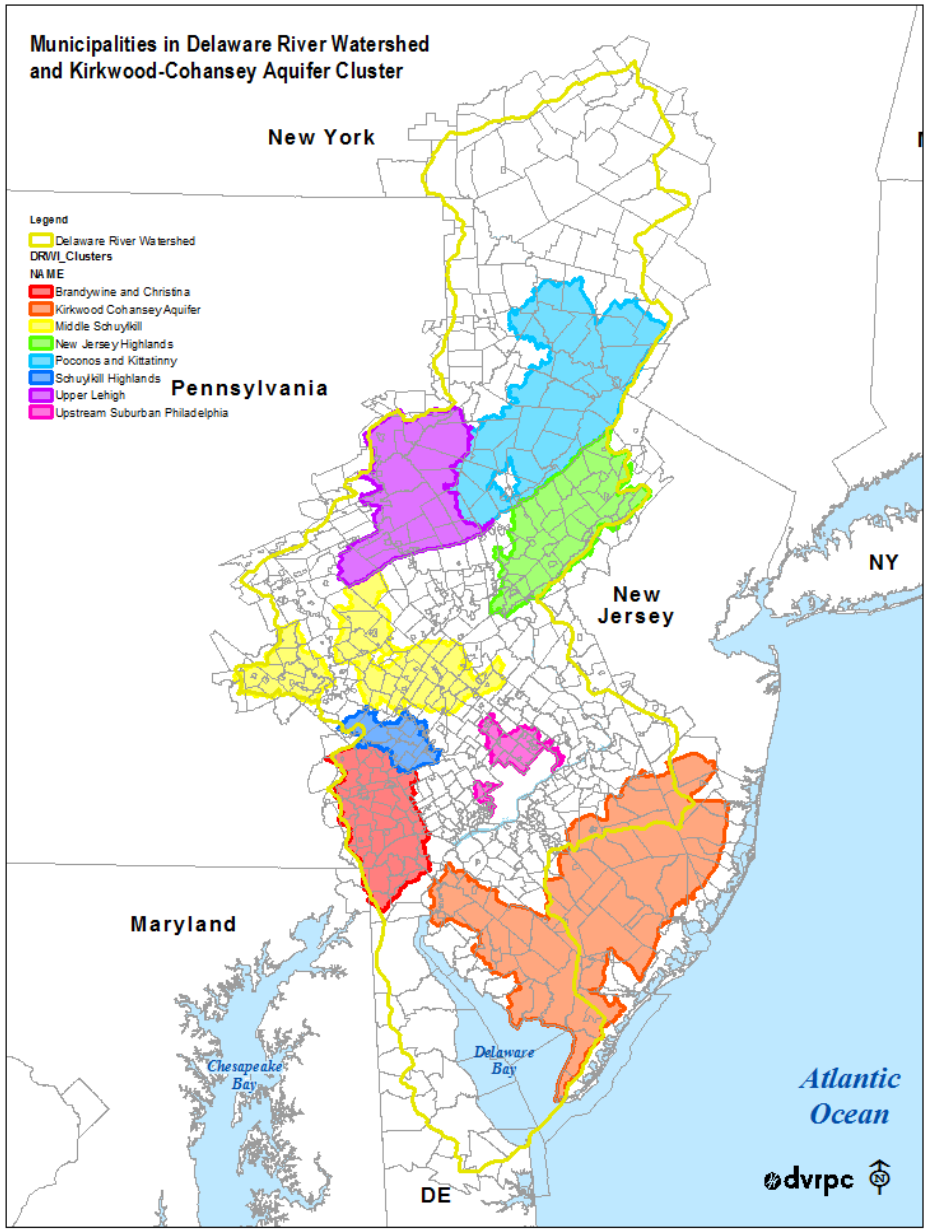
Introductions: MTAAP

Purpose of this Project

- Improve the ability of organizations to assist municipalities in their efforts to improve and protect water quality.
- Main research questions:
  - What are the barriers to, and conditions of, success for municipal-based conservation practices?
  - What municipal technical assistance services are working?
  - How can they be replicated and improved?
  - Where and how could technical assistance be more effective?

DRWI Initiative

- 843 municipalities



Overview of the Project to Date

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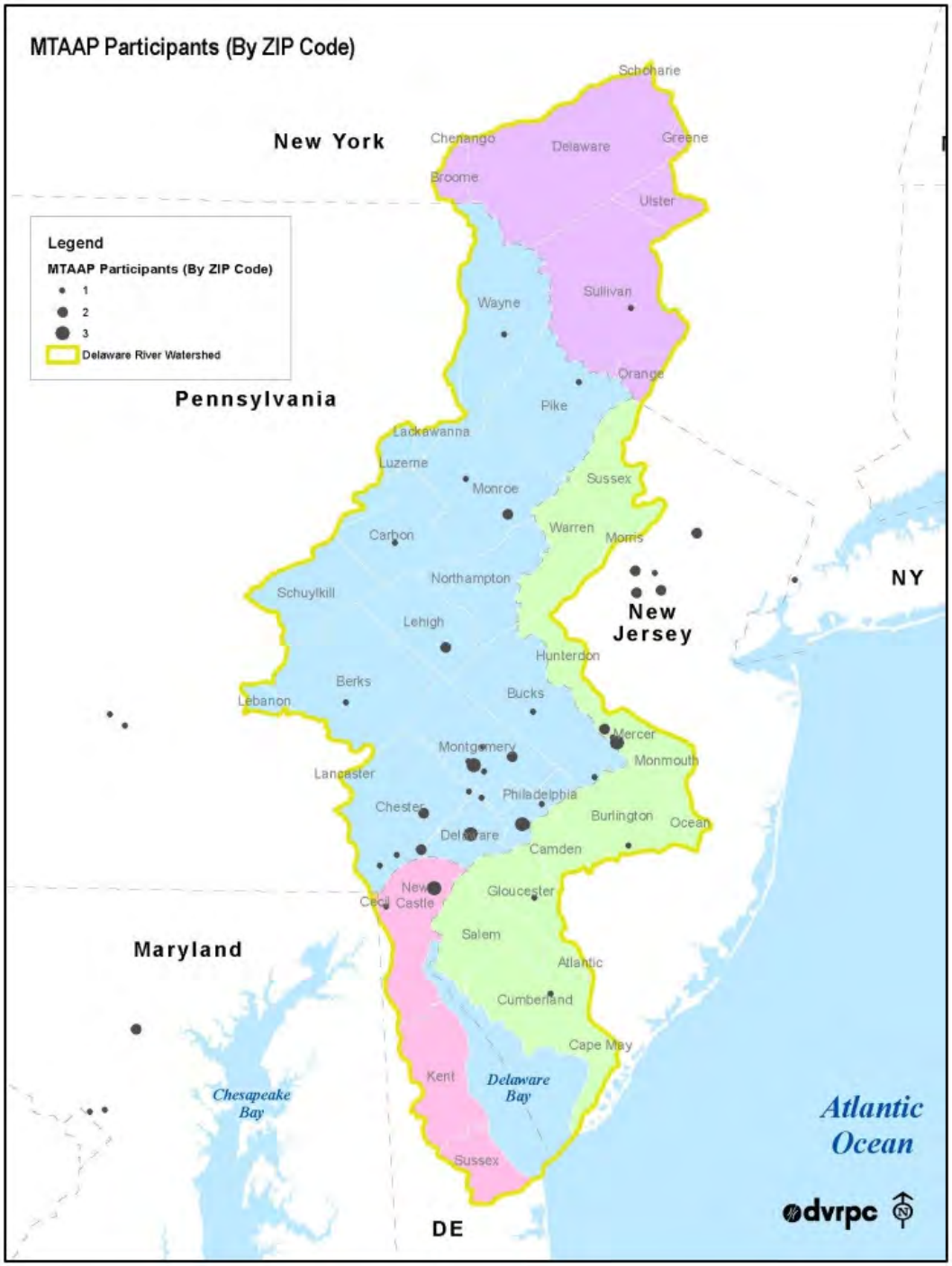
MTAAP Interviews

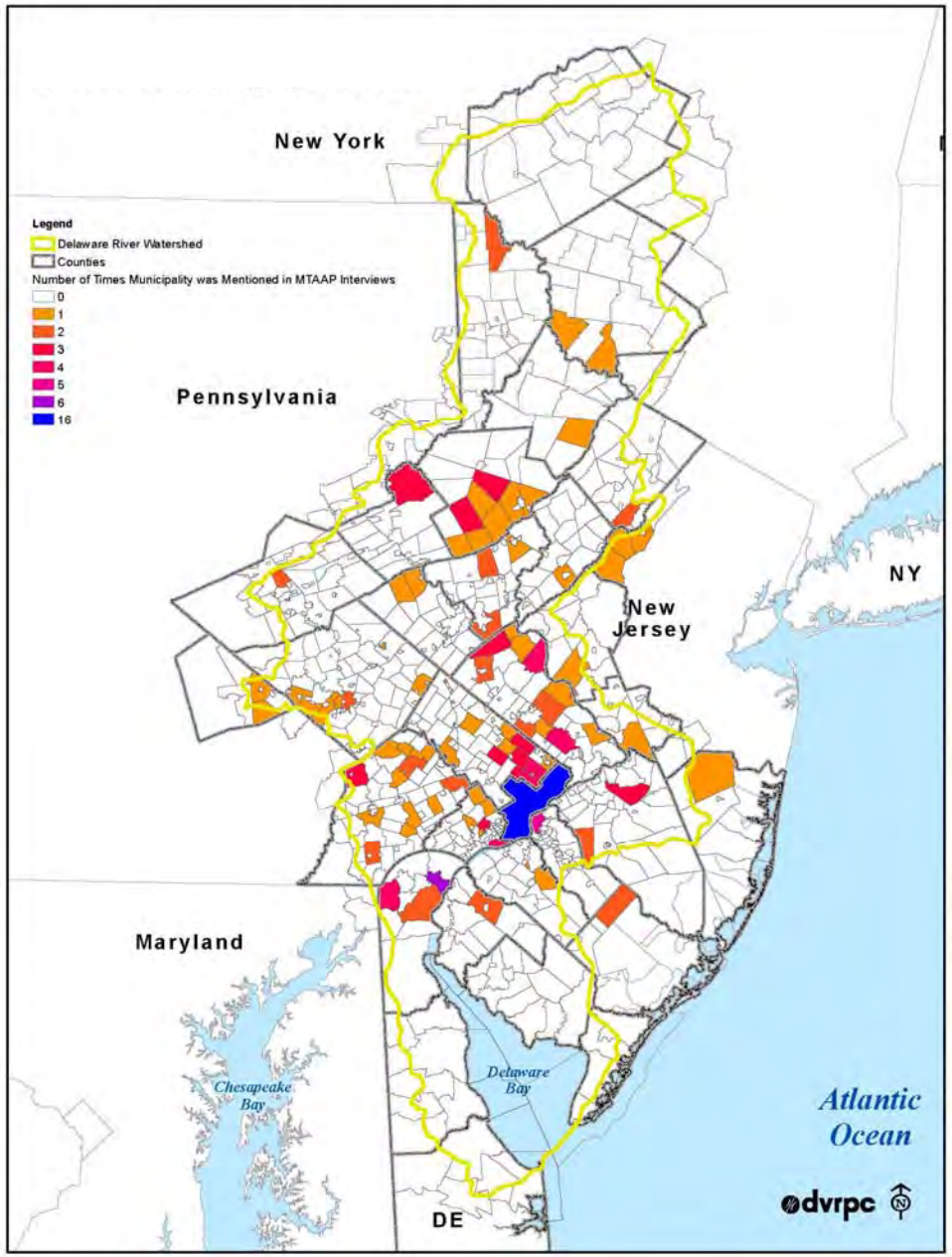


Which municipalities should we talk to?

- Municipalities who have had success
- Municipalities who could do more
- Municipalities who have tried but failed

Municipal Interviews

- 71 municipalities mentioned in MTAAP Interviews



Case Studies

- In-depth case studies (5-10 pages)
- Aiming for 20

Overview of the Project to Date

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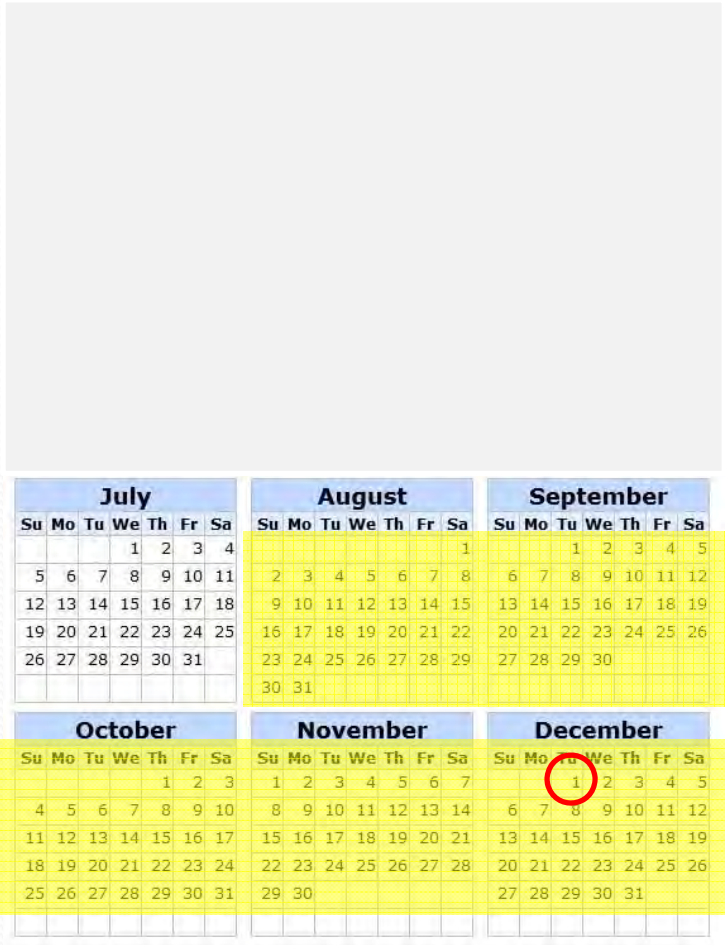

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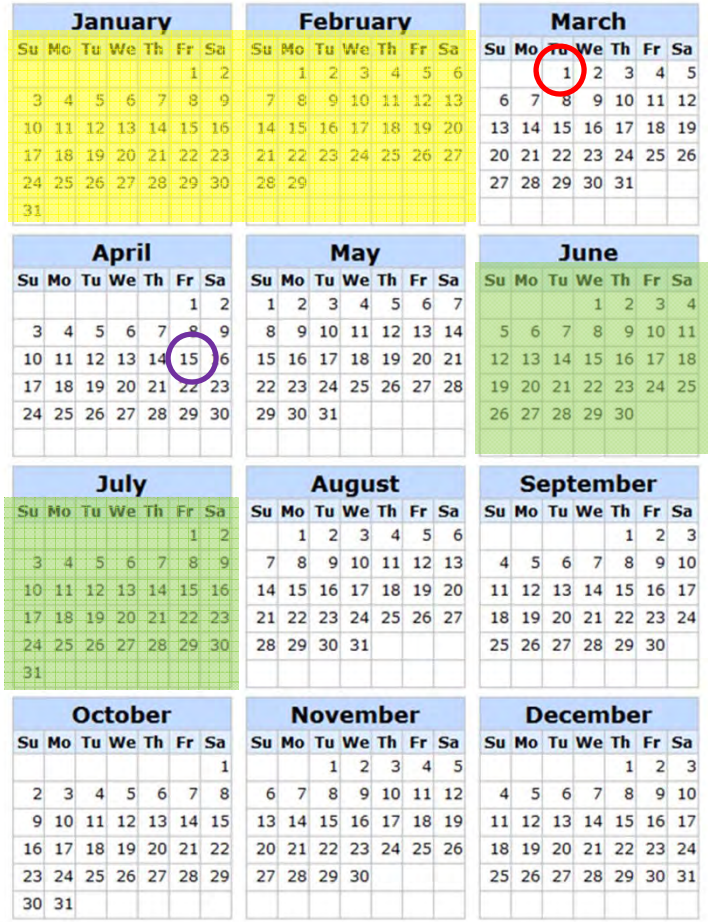

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Municipal Interviews

- Abington Township, Montgomery County
- Buckingham Township, Bucks County
- Cheltenham Township, Montgomery County
- Durham Township, Bucks County
- East Bradford Township, Chester County
- East Goshen Township, Chester County
- East Greenville Borough, Montgomery County
- Evesham Township, Burlington County
- Hamilton Township, Mercer County
- Honey Brook Township, Chester County
- Kidder Township, Carbon County
- Lambertville city, Hunterdon County
- Lebanon Township, Hunterdon County
- London Grove Township, Chester County
- Lower Gwynedd Township, Montgomery County
- Lower Moreland Township, Montgomery County
- Lower Salford Township, Montgomery County
- Lower Saucon Township, Northampton County
- Montgomery Township, Montgomery County
- Newark CCD, New Castle County
- Newtown Town, Sussex County
- Pilesgrove Township, Salem County
- Pocopson Township, Chester County
- Radnor Township, Delaware County
- Reading city, Berks County
- Richland Township, Bucks County
- Smithfield Township, Monroe County
- Solebury Township, Bucks County
- Springfield Township, Bucks County
- Stillwater Township, Sussex County
- Tredyffrin Township, Chester County
- Upper Dublin Township, Montgomery County
- Upper Uwchlan Township, Chester County
- Warrington Township, Bucks County
- Warwick Township, Chester County
- Whitpain Township, Montgomery County
- Wyomissing Borough, Berks County

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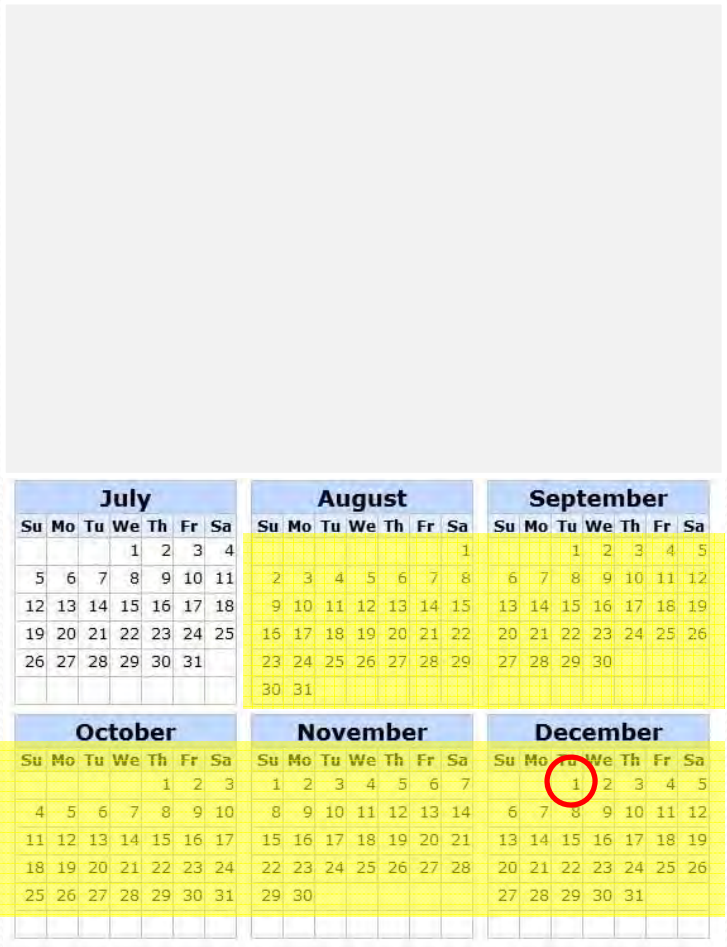

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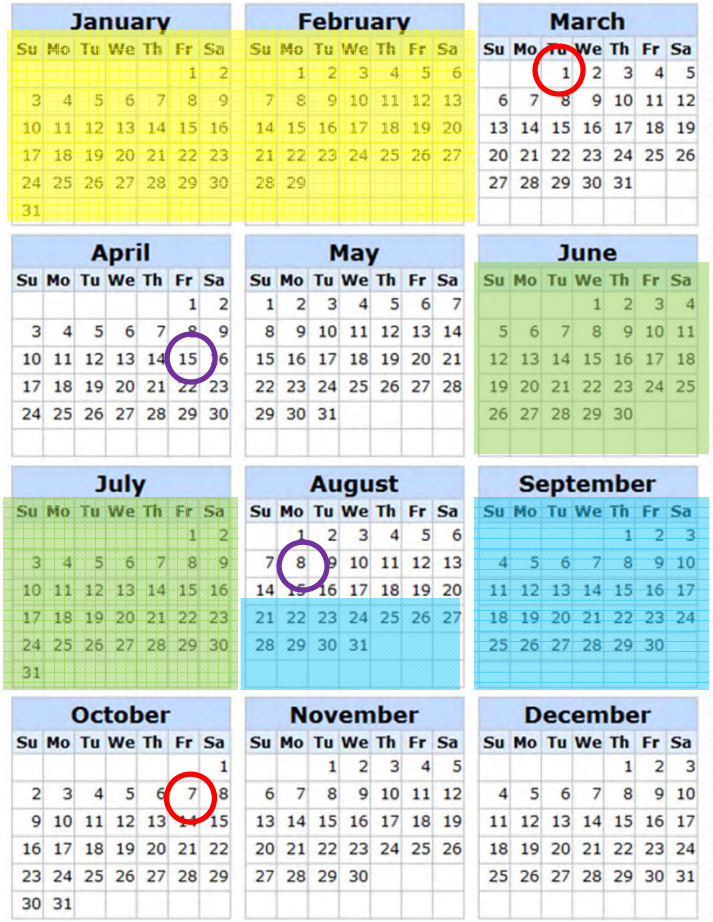

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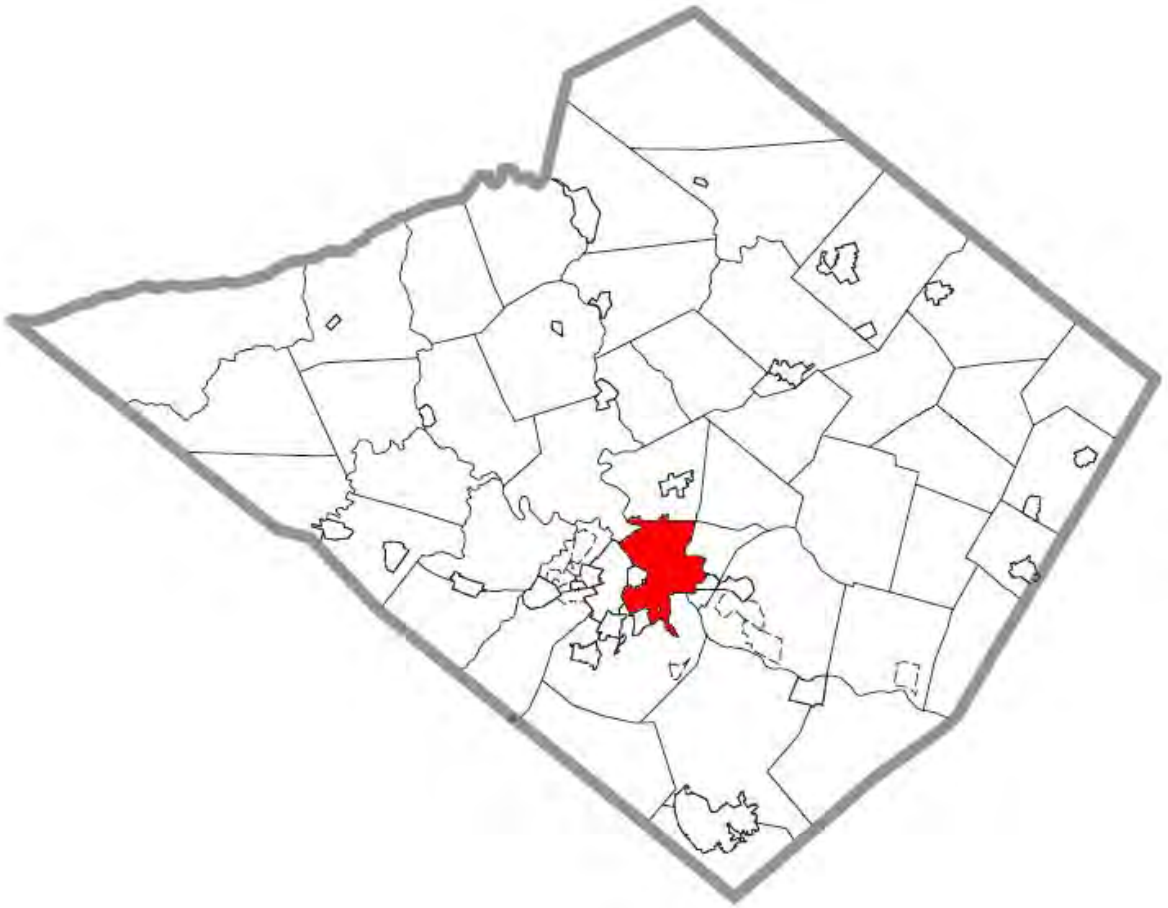
Shortlisted Consultants

Background Information

- Results from Preliminary Municipal Interview
- Fast Facts
  - 2010 Population
  - 2015 Population
  - Area in Square Miles
  - Water Area
  - Population Density
- Relevant Plans/Ordinances

Reading City, Berks County, PA



https://en.wikipedia.org/wiki/Reading%2C_Pennsylvania

Kidder Township, Carbon County, PA

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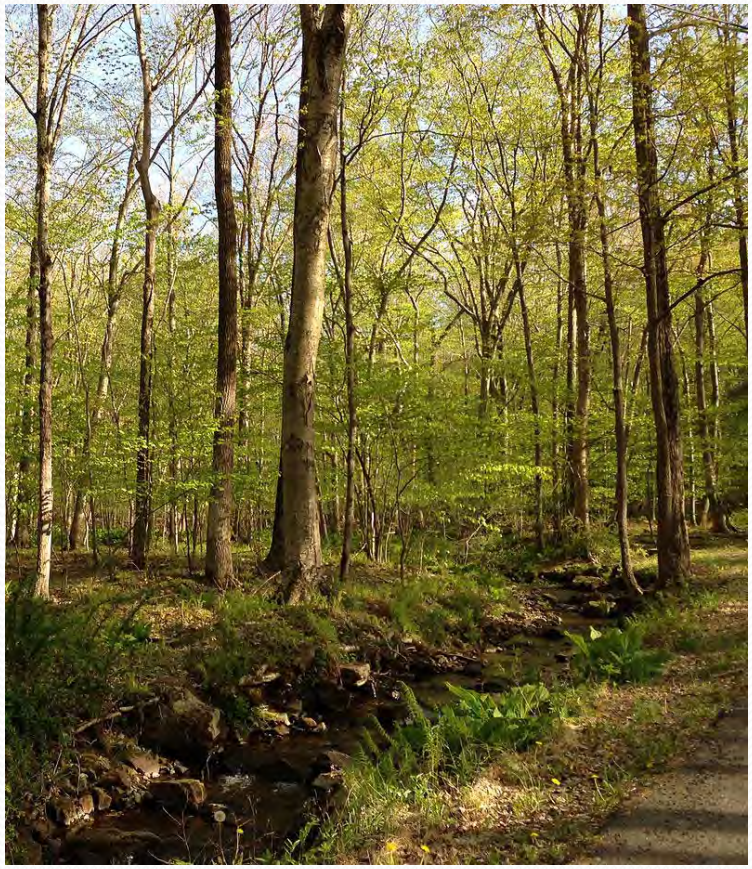
Lebanon Township, Hunterdon County, NJ



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Lambertville City, Hunterdon County, NJ

By Jared Kofsky/PlaceNJ.com - Own work, CC BY-SA 3.0,
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Smithfield Township, Monroe County, PA

By Jerrye & Roy Klotz, MD - Own work, CC BY-SA 4.0,
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Lower Saucon Township, Northampton County, PA

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Tusten Town, Sullivan County, NY

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Newark City, New Castle County, DE

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East Bradford, Chester County, PA

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Lower Salford, Montgomery County, PA

By Doug Kerr - originally posted to Flickr as Lederach, Pennsylvania, CC BY-SA 2.0, https://commons.wikimedia.org/w/index.php?curid=10221193

Abington, Montgomery County, PA

Source: Abington Township

Montgomery Township, Montgomery County, PA

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Hamilton Township, Mercer County, NJ

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Durham Township, Bucks County, PA

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https://commons.wikimedia.org/w/index.php?curid=22766502

Case Studies Left to Be Assigned

Municipalities
Cheltenham Township, Montgomery County, PA
Warrington Township, Bucks County, PA
Tredyffrin Township, Chester County, PA
Radnor Township, Delaware County, PA
Whitpain Township, Montgomery County, PA
Camden City, Camden County, NJ
Evesham Township, Burlington County, NJ
Pilesgrove Township, Salem County, NJ

Project Timeline

- October 2016 – follow-up interviews if needed
- October 31 – draft case studies due
- November 2016 – DVRPC reviews draft case studies
- December 31 – final case studies due
- January 2017– DVRPC finalizes and distributes report

Questions?

https://tidysurveys.com/blog/2013/11/03/survey-questions-choose-right-type-survey-questions/

Scott Haag and Lin Perez

THE ACADEMY
OF NATURAL SCIENCES
of DREXEL UNIVERSITY

Promising Recommendations

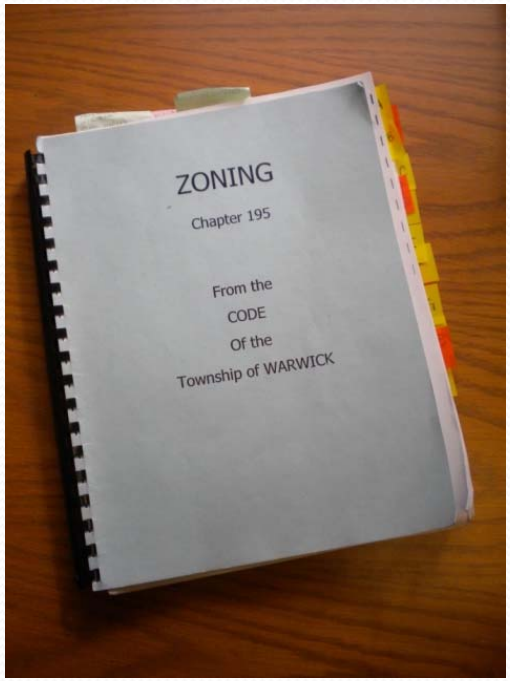
Project Team Members' Early Choices

Set 1

DELAWARE VALLEY dvrpc REGIONAL PLANNING COMMISSION

A. Create Legal Assistance Fund

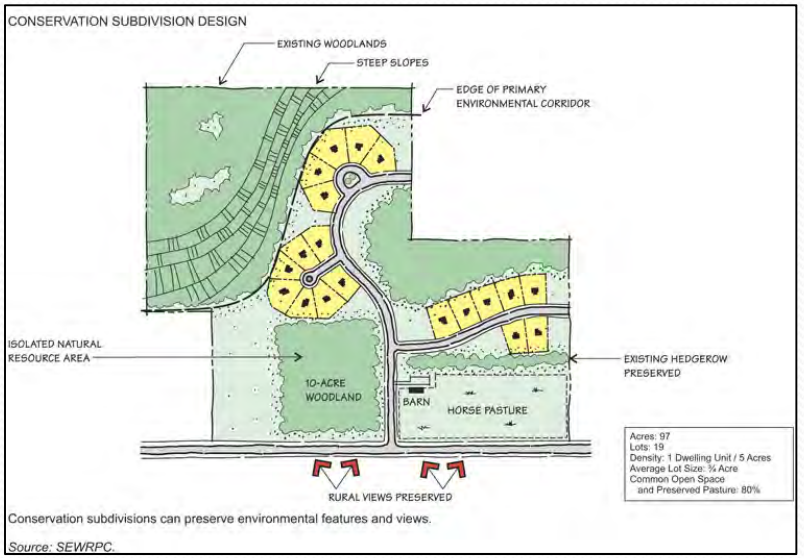
- PA and NJ Municipalities have legal right to regulate development:
  - Planning & Zoning (codification)
  - Development review and approval processes
  - Enforcement



Credit: Christina Arlt, Warwick Twp, PA

A. Create Legal Assistance Fund

- Planning & Zoning
  - Zoning tied to comprehensive planning
  - Zoning balances right of property owner to use property without impinging upon rights of neighboring property owners AND best interest of community.
  - Threat of legal challenge can be enough to dissuade municipality to make changes



A. Create Legal Assistance Fund

- Development reviews:
  - Municipal solicitor's opinion can be enough to dissuade municipality/board/other professional staff
- Enforcement requires
  - Available staff
  - Strong staff knowledge
  - Strong administration
  - Willingness to take legal action

A. Create Legal Assistance Fund

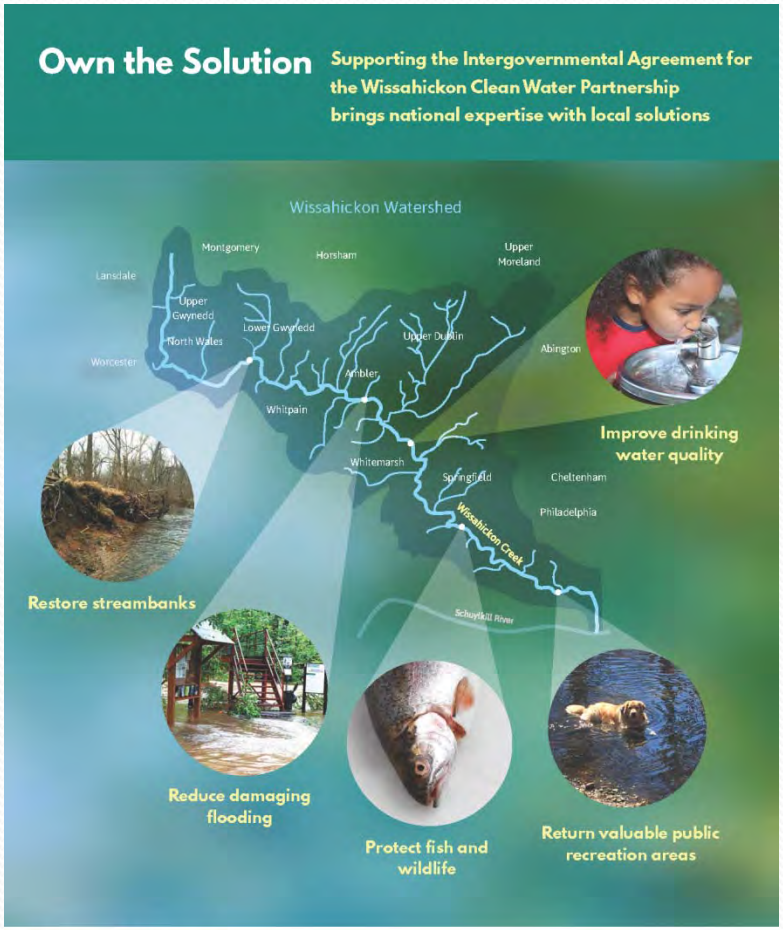
- Other examples to learn from or inform recommendation?
  - Did Chester County try this with first Landscapes Comprehensive Plan?
  - Lancaster County's growth management plan (requires down-zoning in rural areas) – legal challenges?

A. Create Legal Assistance Fund

- Lots to figure out/discuss:
  - Financial assistance for municipalities that…
  - Technical assistance for municipal solicitors that…
  - Where would funding come from…

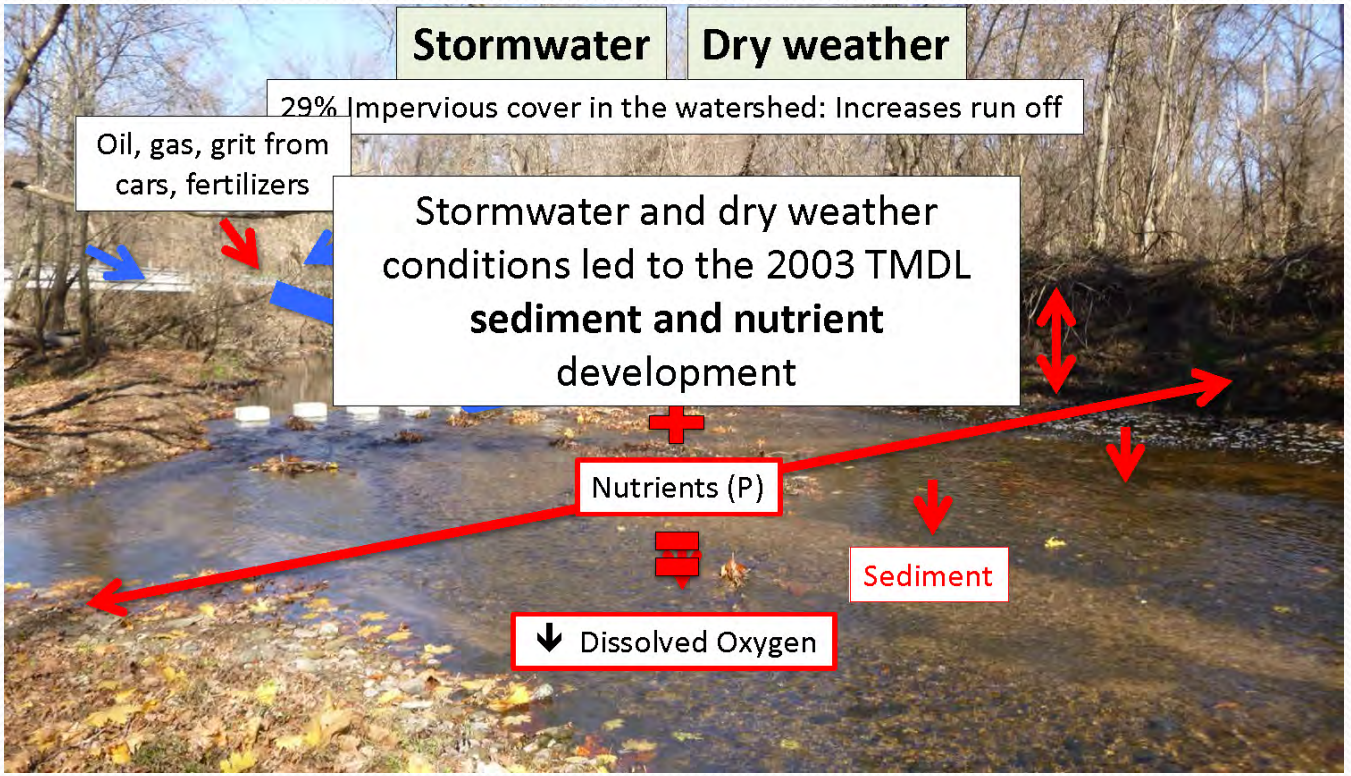
B. Utilize Multi-Municipal Partnerships

- Improved, transparent guidance from PADEP so municipalities know that their efforts will be approved
- Wissahickon Clean Water Partnership
  - Role of a trusted non-profit partner (WWVA)



B. Utilize Multi-Municipal Partnerships

- TMDLs and MS4 Pollution Reduction Plans



C. Go Where Municipalities Already Go

Bonds
Police Union
Insurance
Road Maintenance
Crime
Workman's Comp Claims
Lawsuits
Contracts
H.R. Issues
Boards & Commissions
Emergency Management
Auditors
Municipal Pensions
School District
Parks & Recreation
Ordinances & Resolutions
Taxes
Grant Applications
State Agencies
Business Owners
Trash & Recycling
Residents
Right to Know Requests
Planning & Zoning

Municipal Organizations

NJLM Ordinance Library

http://www.njslom.org/bureau/ordinances-ssa.html

Abandoned Property
Abandoned Property Rehabilitation Act
Affordable Housing
Agricultural Issues
Alarms
Alcoholic Beverages
Animals
Annual Budget for Municipalities
Background Checks
Bonding
Capital Improvements
Carbon Monoxide Detectors
Coin Drops
Contract Awards
Development
Development Regulations
Development - Special Improvement District
Drug Issues
Drunk Driving Free Zone
Economic Development
Electronic Payment
Emergency, Rescue Services
Ethics
Faulkner Act Charter Study Commission
Fences
Filming
Fire Prevention
Flag Displays
Garbage-Solid Waste
Graffiti
Hand Held Lasers
Health
Historic Preservation
Home Based Businesses
Housing Issues
Ice Retardant Systems
Interlocal Services
John's Law
Kindness Month Sample Proclamation
Land Preservation (See Open Space
Length of Service Awards Program (LOSAP)
License Fees
Lighting Nuisances
Local Assistance Board
Mailboxes
Municipal Facilities for Public Use
Municipal Fees
Municipal Officials and Employees
Newsracks
Noise and Nuisances
Open Public Records
Ordinance-Code Violations & Penalties
Outdoor Sales & Displays
Pay to Play
Peddlers & Solicitors
Pedophile Free Zones (See Sex Offender Free Zone)
Personnel Issues
Planning & Engineering
Plumbing
Police and Fire
Pools
Professional Service Contracts
Property Issues (See also Sidewalks and Rental Properties)
Public Meetings
Public Safety
Recreation
Recreation Advisory Committee
Rental Properties
Respiratory Protection
Salaries
Schools
Sewers
Security Cameras
Sex Offender Free Zone
Sexual Harassment
Shade Trees
Sidewalks & Streets
Signs
Skateboards
Smoking (See Tobacco & Smoking Issues)
Snow Removal
Storage Tanks
Stormwater Issues
Tattoo & Body Piercing
Telecommunications and Cell Towers
Tobacco and Smoking Issues
Towing
Traffic - Parking Issues
Traffic - Right of Ways
Traffic & Road Issues
Trucks
Vehicle Storage
Vital Statistics
Wastewater Treatment Systems
Zoning - Land Use

Abandoned Property
Abandoned Property Rehabilitation Act
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PSAB Ordinance Library

http://boroughs.org/ordfiles.php?link=Ordinances

Adult Entertainment
Alcoholic Beverages
Amplified Noise From Vehicles
Amusement Devices
Animal Nuisance
Audit Of Accounts
Award For Arrest
Crossing Guards
Curbing Of Dogs
Dangerous Structures
Excessive Noise
Feeding Wildlife
Feral Cats
Fire Losses
General Curfew For Minors
Junked Motor Vehicles
Landlords Tenants
Laser Beam Pointer Devices
Maintenance Of Curbs and Sidewalks
Mayor Council Compensation
Motor Vehicles
Notices on Poles Prohibited
Numbering Buildings
Office Of Manager
Outside Burning
Portable Storage Containers
Property Maintenance 1
Property Maintenance 2
Public Trash Collection
Real Estate Tax Certifications
Recycling
Regulation Of Partition Fences
Removal Of Snow
Secretary Treasurer
Shade Tree Commission 1
Shade Tree Commission 2
Shade Tree Commission 3
Shade Trees
Sidewalks
Skateboards
Smoke Detectors
Snow And Ice Emergencies
Snow Emergencies
Speed Limits
Stagnant Water Pools
Swimming Pool
Tampering With Property
Tax Collector
Trees 1
Trees 2
Trees Overhanging
Vector Control
Vehicles And Traffic
Warrantless Arrests
Waste Dumpsters
Water And Sewer Rates
Wireless Towers
Yard Sale Permits
Yard Waste

C. Go Where Municipalities Already Go

- Figure out how we can get model ordinances and other expert content into the hands of municipalities by partnering with trusted municipal organizations.

D. Experiential Learning

httpa://commons.wikimedia.org

I was in the Peace Corps in India as an agricultural volunteer with no water background.

I grew up in a time when being outside was the first option.

My fascination with water led me to go into civil engineering.

My parents always took us out – I had an early, deep connection with the landscape.

Working in an EAC and seeing good things happen from it gets to be kind of addictive.

Radnor Middle School Watershed Program

www.rtsd.org/, http://web.mit.edu/wplp/sms/radnor.htm

University of Maryland Watershed Stewards Academy

Session 1: Introduction, Orientation

*Tuesday, September 20th 6:00-9 pm**

Topics: Water Cycle – Introduction to the WSA, Significance of Participation, Sense of place. Overview of Watershed Issues from a National to Local Scale. (VP/DJ)

We will introduce the course, its objectives, and its requirements, including the Capstone project. We will introduce and get to know one another, including why we are here and where we are from. We will introduce the concept of watersheds, including our place in them.

We will begin to explore the concept of community, what defines community, and the composition of a thriving community.

We will explore the water cycle and the interrelatedness and connections it shows within community. We will explore the water cycle in relation to watersheds, including how this cycle has been disrupted (local watershed issues especially related to stormwater, or polluted runoff). We will also look at different solutions and tools in order to accomplish the work.

Session 2: Storm-water Management Tour

Part 1: Infiltration: Rain Gardens, Conservation Landscaping, Permeable pavement, Green roofs, and Water harvesting. Perspectives and Practice on Neighborhood Part 2: Site Assessments. Putting It All into Practice: Class Project Site Assessment and Planning

Saturday, Sept 24th 11 - 3 pm (Forest Heights Municipal Center) (JM/VP/JB)

We will tour several sites that demonstrate possible solutions for stormwater problems. Among the sites to be visited, stewards will see a green roof, rain garden, permeable pavers, etc. Stewards will understand modern water resource issues locally and globally. We will also learn about native plants, including what it means to be native, why native plants are used, and why non- native plants, particularly invasive plant species may pose problems. We will identify soils and plants for use in our stewardship projects.

We will learn about specific good stewardship practices that can reduce stormwater pollution, such as green roofs, rain barrels, conservation landscaping, and rain gardens. We will explore the nuts and bolts of these practices to determine suitable locations, best design practices (design, installation, and maintenance), and risks; the basics of;

Penn State Extension Watershed Ambassadors

Penn State **Extension**

Master Watershed Steward Program

Lehigh & Northampton Counties

CALL FOR VOLUNTEERS

The Penn State Extension **Master Watershed Steward Program** in Lehigh and Northampton Counties will be training a new class in spring of 2016. We are looking for individuals that have an interest in the environment, a willingness to learn more and most importantly, a strong desire to make a difference in the community. So whether you are a teacher, an accountant, a construction worker, a homemaker, a student, or have another background, **YOU** can become a Master Watershed Steward.

To become a certified Master Watershed Steward, you must complete 40 hours of training and fulfill 50 hours of volunteer service. After becoming certified, you can maintain your status by giving at least 20 volunteer hours and attending at least 10 hours of continuing education annually.

Master Watershed Stewards volunteer in the community to improve the health of our streams, rivers and other natural resources by:

- organizing educational events
- designing demonstration rain gardens
- working with municipal officials to plant native meadows
- organizing stream clean ups
- monitoring steams for bacteria
- teaching adults and children about the environment
- and in many other ways

The new training program will begin in March of 2016 and run through mid-June with a mixture of weekday evening classroom sessions and Saturday field trips. **For more information, contact Erin Frederick at 610-391-9840 or elf145@psu.edu.** Information can also be found at extension.psu.edu/Lehigh

Coordinating Program Partners

Lehigh Gap Nature Center · Watershed Coalition of the Lehigh Valley · Northampton County Conservation District · Wildlands Conservancy · Appalachian Mountain Club

PENNSTATE Cooperative Extension *College of Agricultural Sciences*

This publication is available in alternative media on request.

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extension.psu.edu

http://extension.psu.edu/natural-resources/water/watershed-education/watershed-stewards

Program Structure

- Run by entity focused on education
- Targeted groups
- Incentivized or required education
- Funding source
- Program content

www.beforeitsnews.com

Promising Recommendations

Project Team Members' Early Choices

Set 2

DELAWARE VALLEY dvrpc REGIONAL PLANNING COMMISSION

E. Create Watershed-based Mitigation Plan and Bank

- Mitigation Banks
  - Most common known example: Wetland Banking
    - "No net loss of wetlands"
  - Form of compensatory mitigation
  - Happens off-site, but location has rational nexus (i.e. watershed)
  - Pay-ahead – do something now for an impact we know is going to happen in the future

Credit: Nick Carson at English Wikipedia - Transferred from en.wikipedia to Commons., Public Domain, https://commons.wikimedia.org/w/index.php?curid=9959121

E. Create Watershed-based Mitigation Plan and Bank

- Mitigation banks usually require:
  - Plan (idea of what needs to be done where and why)
    - Sending Area/Receive Area
    - Wish List projects
  - Fund (admin funds as well as fees/fines for cash flow)
  - Implementation
    - Credits (do now)
    - Debits (impacts later)

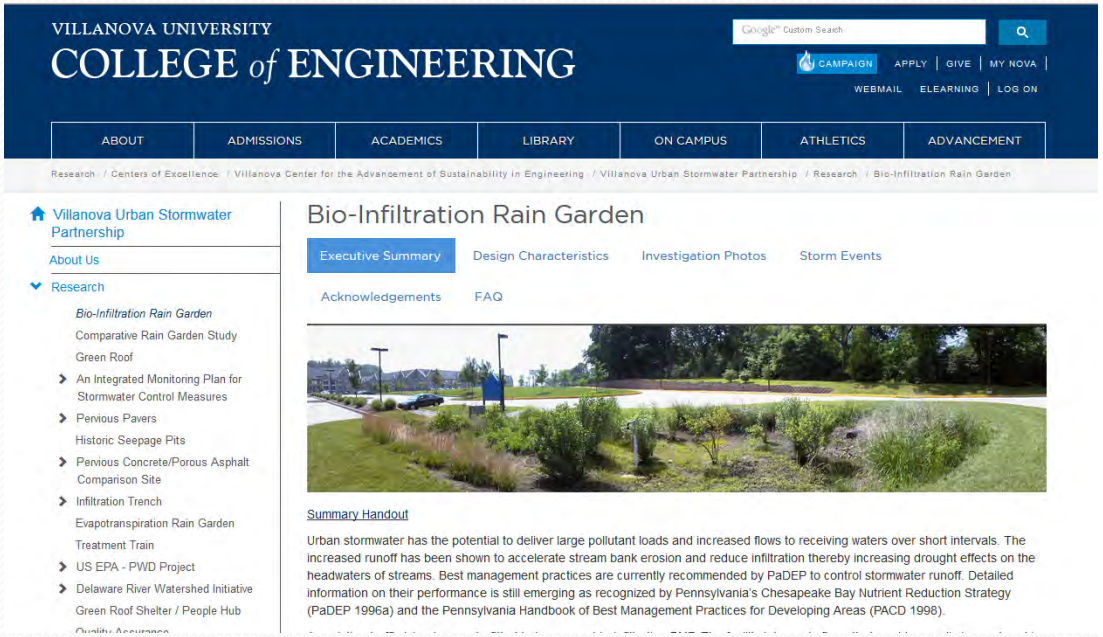
Credit: Abington Township, PA

E. Create Watershed-based Mitigation Plan and Bank

- Lots to figure out/discuss:
  - Geographic extent? Subwatersheds?
  - “No net loss of permeability?”
  - Is this for stormwater only? Or all water quality?
  - Upstream/downstream projects?
  - Regular line-items in municipal budgets?
  - Baseline vs. Nice-to-have

F. Connect Academic Researchers with Ordinance Writers

- Where to host?
  - Stormwater Clearinghouse?
  - PSATS/NJ League?
- Is this information useful for codes?
- How to fund?

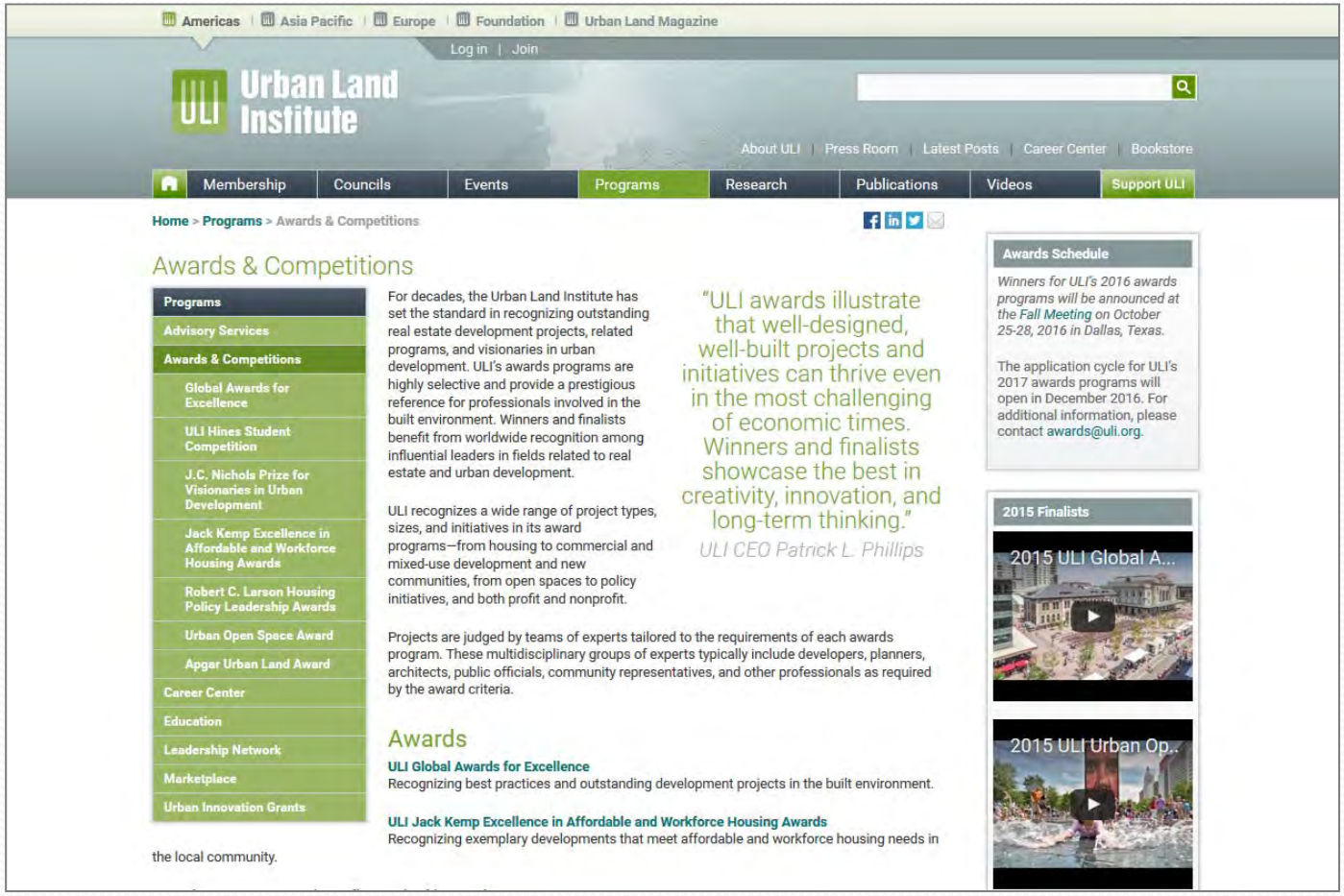


G. Celebrate!

G. Celebrate Projects

Figure 6.5-16. Rain Garden in State College, PA.
http://www.dep.state.pa.us/dep/subject/advcoun/stormwater/Manual_DraftJan05/Section06-StructuralBMPs-part1.pdf

G. Celebrate Developers



http://uli.org/

G. Celebrate Municipalities

https://twitter.com/psats/status/464832673207160832

G. Celebrate Municipalities

- Piggyback on an existing awards program?
- Create a new awards program?

H. Create Stormwater Clearinghouse for Municipalities

- Funding sources
- Legal information
- Sample plans and ordinances
- Costs and benefits of conservation activities
- Sample educational materials for varied groups

http://www.stormwaterpa.org/best-practices-overview.html

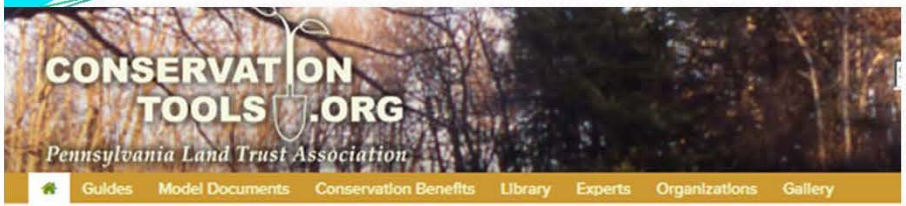
There is a need to show measurable results, but we are just guessing about the actual impact.

We could use a little more data to help prioritize projects.

We are required to reduce phosphorus content by 99 percent, but we don't know how to attain that.

We don’t have good guidelines on what we should be doing.

The EPA said that street sweeping doesn't count to address TMDLs, so why are we doing this?



FEATURED GUIDE

Purchase Options

A purchase option is a right to purchase or lease land or other property interests without any obligation to do so.

Read more...

- Acquiring Land & Easements
- Financing Conservation
- Model Documents
- Research & Education
- Land Use Regulation & Design
- Library
- Parks, Trails & Recreation
- Sign Gallery
- Studies
- Stewardship & Management
- Other
- Experts

Facebook Twitter YouTube

DEP > Businesses > Water > Bureau of Clean Water > Stormwater Management > Municipal Stormwater > MS4 Resources

MS4 RESOURCES

The following is a selection of resources for those seeking more information on MS4s or assistance with implementing stormwater management programs or other permit requirements. Links to resources outside of DEP's website does not necessarily constitute an endorsement.

RELATED INFO

FUNDING OP

MS4 RESOUR

MAPS

- eMapPA
  This DEP application can be used to view urbanized areas (UAs) based on the 2000 and 2010 censuses along with other facilities and features.
- PA Urbanized Areas (PDF)
  This map of PA UAs is based on 2010 census data.
- EPA Urbanized Area Website
  2010 UA maps

MODELING/PLANNING TOOLS

- MS4 Requirements Table web-based GIS application
  This application provides a visual representation of the information contained in the MS4 Requirements Table.
- Statewide MS4 Land Cover Estimates (PDF)
  This document contains percent impervious and pervious cover, both inside and outside of urbanized areas, for each municipality with an MS4 in PA, which may be used to develop pollutant loading estimates for Pollutant Reduction Plans and TMDL Plans.
- PA Stormwater Manual DRAFT Compliance Spreadsheet (XLSX)
  Use of the Chesapeake Bay Performance Standards curves to calculate BMP pollutant load removals requires an estimate of the stormwater pre-to-post development volume increase. The pre-to-post volume increase is most easily calculated using this spreadsheet.
- Expert Panel Reports
  - Final CBP Approved Expert Panel Report on Stormwater Performance Standards (Long Version) (PDF)
  - Final CBP Approved Expert Panel Report on Stormwater Retrofits (Long Version) (PDF)
  - Final Recommendations of the Expert Panel to Define Removal Rates for Individual

Clearinghouse Development

- Connect trusted municipal source and trusted expert source
- Add new information, as needed, to trusted expert source
  - Determine municipalities' knowledge gaps
- Promote clearinghouse throughout region
  - Funding source?

Small Group Discussions

- Purpose:
  - Provide feedback on early/promising recommendations
  - Help determine usefulness and feasibility
  - Start to develop recommendation
- Go through two rounds
  - Choose group to discuss specific recommendation.
  - 10-15 minutes per round

Small Group Discussions #1

Group A: Create Legal Assistance Fund –

Conference Room Front – Alison Hastings

Group B: Watershed-based planning and partnerships –

Pennsylvania Room – Chris Linn

Group C: Go to Where Municipalities Already Go –

Conference Back – Christina Arlt

Group D: Experiential Learning

New Jersey Room – Melissa Andrews

Small Group Discussions #2

Group E: Create Watershed-based Mitigation Plan and Bank –
Conference Room Front – Alison Hastings

Group F: Connect Academic Researchers with ordinance writers –
Pennsylvania Room – Chris Linn

Group G: Celebrate –
Conference Back – Christina Arlt

Group H: Create Stormwater Clearinghouse –
New Jersey Room – Melissa Andrews

Next Steps

Municipal case studies

- October 2016: Write case studies
- November 2016: Review case study drafts
- December 2016: Complete case studies

Recommendations survey

- Create list of recommendations
- Develop recommendations survey
- Send survey to the MTAAP and collect responses
  - Look out for the survey link in **January 2017**

Next MTAAP meeting:

- Meeting #4
- At DVRPC's Offices
- Late January or early February 2017
  - TBD from evaluation form responses
- Results of recommendations survey and MTAAP feedback

Evaluations

Municipal Technical Assistance Advisory Panel (MTAAP)
October 7, 2016 Meeting Survey

Help us find out what worked and what didn't work about today's meeting

1. **Please rate the overall quality of the MTAAP meeting.**

	1	2	3	4	5	
Low quality	☐	☐	☐	☐	☐	High quality

2. **Was the MTAAP meeting a good use of your time?**

	1	2	3	4	5	
Not a valuable use of my time	☐	☐	☐	☐	☐	Excellent use of my time

3. **What did you like best about the MTAAP meeting?**

4. **What could have been improved about the MTAAP meeting?**

5. **Do you have suggestions for this project and/or the MTAAP that would help us achieve the deliverables?**

6. **Would you be able to attend an MTAAP meeting in Philadelphia on the following dates?**
Check all that apply.

____ Friday, 1/20/2017

____ Tuesday, 1/24/2017

____ Thursday, 2/9/2017

____ Wednesday, 2/15/2017

Questions?

https://tidysurveys.com/blog/2013/11/03/survey-questions-choose-right-type-survey-questions/

Please Join Us For Lunch!

http://espressoandcream.com/2012/08/vegetarian-lasagna-with-goat-cheese-and-summer-squash.html